E59 BIOS 0.05.03 1DDI2TCP Documentation

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1 Main

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1.34 Microcode Revision	CPU Microcode Revision	
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1.62 ISSE FW Version	ISSE Firmware Version	
1.63 PMC FW Version	PMC Firmware Version	
1.64 System Language	Choose the system default language	Possible Choices: • •
1.65 System Date	Set the Date. Use Tab to switch between Date elements. Default Ranges: Year: 1998-9999 Months: 1-12 Days: Dependent on month Range of Years may vary.	
1.66 System Time	This is the help for the hour, minute, second field. Valid range is from 0 to 23, 0 to 59, 0	

	to 59. INCREASE/REDUCE : +/-.	

2 Advanced

Setting	Help	Defaults
2.1 Connectivity Configuration		
2.1.1 CNVi CRF Present	[Yes] means CNVi is the active Connectivity Solution, [No] means CNVi was not discovered	
2.1.2 CNVi Configuration		
2.1.3 CNVi Mode	This option configures Connectivity. [Auto Detection] means that if Discrete solution is discovered it will be enabled by default. Otherwise Integrated solution (CNVi) will be enabled; [Disable Integrated] disables Integrated Solution. NOTE: When CNVi is present, the GPIO pins that are used for radio interface cannot be assigned to the other native function.	Possible Choices: • Disable Integrated • Auto Detection Default Value: • Disable Integrated
2.1.4 Wi-Fi Core	This is an option intended to Enable/Disable Wi-Fi Core in CNVi	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.1.5 BT Core	This is an option intended to Enable/Disable BT Core in CNVi	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.1.6 BT Audio Offload	This is an option to Enable/Disable BT Audio Offload which enables audio input from BT device to the	Possible Choices: • Disabled

	audio DSP and enables power efficient audio output to BT device.	• Enabled Default Value: • Disabled
2.1.7 Skip VDID Check	This is an option to Enable/Disable Skip VDID Check for CNVd	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.8 CoExistence Manager	CoEx Manager mitigates radio coexistence issues between Intel WWAN (modem) and Intel WLAN (WiFi/BT). This should be enabled only if both WWAN and WLAN solutions are based on Intel components	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.9 Preboot BLE	This will be used to enable Preboot Bluetooth function	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.10 Discrete Bluetooth Interface	Seriallo UART0 needs to be enabled to select BT interface	Possible Choices: • Disabled • USB • UART Default Value: • Disabled
2.1.11 BT Interrupt Mode	Selects routing of interrupt from BT Module	Possible Choices: • GPIO Interrupt • APIC Interrupt Default Value: • GPIO Interrupt

2.1.12 BT Tile Mode	Enable/Disable Tile	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.13 Tile S0	The activity of Tile in S0. Bit0:Find My PC Bit1:Ring Notification Bit2:BT_LED# Signal	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.1.14 Tile S0ix	The activity of Tile in S0ix. Bit0:Find My PC Bit1:Ring Notification Bit2:BT_LED# Signal	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.1.15 Tile S4	The activity of Tile in S4. Bit0:Find My PC Bit1:Ring Notification Bit2:BT_LED# Signal	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.1.16 Tile S5	The activity of Tile in S5. Bit0:Find My PC Bit1:Ring Notification Bit2:BT_LED# Signal	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.1.17 BT LED Config	BT LED Config	

	Bit0:Define LED to Tile Ring Notification Bit1:Active High Polarity	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 3
2.1.18 BT LED Pulse Duration	LED Duration in milliseconds. Min:1ms Max:1000ms	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.19 BT LED Pulse Interval	LED Pulse interval in tens of milliseconds. Min:10ms Max:2550ms	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.20 Advanced settings	Configure ACPI objects for wireless devices	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.21 Switched Antenna Diversity Selection	This allows WiFi modules which have only one antenna to use one of the 2 possible antennas with the options: 0 - Antenna1 1 - Antenna2 2 - Diversity 3 - Diversity Antenna1 4 - Diversity Antenna2	Possible Choices: • Antenna1 • Antenna2 • Diversity • Diversity Antenna1 • Diversity Antenna2 Default Value: • Diversity
2.1.22 SPLC		

2.1.23 Domain Type SPLC 1	09h: Module(M.2); 07h: WiFi/WLAN; 0Fh: WWAN; 10h WiGig; 14h: RFEM	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 20
2.1.24 Default Power Limit	Power Limit in milli watts	Default Value: • 65535 Numeric Range: Minimum Value: 1 Maximum Value: 65535
2.1.25 Default Time Window	Time Window in milli seconds	Default Value: • 30000 Numeric Range: Minimum Value: 1 Maximum Value: 100000
2.1.26 WAND		
2.1.27 TRxDelay_A	Antenna A delay possible values: 1-100 in 10ths of nano seconds resolution	Default Value: • 50 Numeric Range: Minimum Value: 1 Maximum Value: 100
2.1.28 TRxCableLength_A	Antenna A cable length possible values: 1-100cm in 1cm resolution	Default Value: • 50 Numeric Range: Minimum Value: 1

		Maximum Value: 100
2.1.29 TRxDelay_B	Antenna B delay possible values: 1-100 in 10ths of nano seconds resolution	Default Value: • 50 Numeric Range: Minimum Value: 1 Maximum Value: 100
2.1.30 TRxCableLength_B	Antenna B cable length possible values: 1-100cm in 1cm resolution	Default Value: • 50 Numeric Range: Minimum Value: 1 Maximum Value: 100
2.1.31 WRDD Package 1		
2.1.32 Domain Type	09h: Module; 07h: WiFi/WLAN; 0Fh: WWAN; 10h WiGig; 14h: RFEM	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.1.33 Country Identifier	Country identifier as defined in ISO/IEC 3166-1 Alpha 2 code	Default Value: • 16720 Numeric Range: Minimum Value: 1 Maximum Value: 65535
2.1.34 11Ax Control		
2.1.35 11Ax Setting for Ukraine	11Ax Setting for Ukraine Bit 0 - Apply changes to country Ukraine. 11Ax Setting within module certification	Possible Choices: • Disabled • Enabled

	00 - None. Work with Wi-Fi FW/OTP definitions [Default] 01 - Apply changes	Default Value: • Disabled
2.1.36 11Ax Mode for Ukraine	11Ax Mode for Ukraine Bit 1 - 11Ax Mode. Effective only if Bit 0 set to 1 00 ??Disable 11Ax on country Ukraine [Default] 01 ??Enable 11Ax on country Ukraine	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.37 11Ax Setting for Russia	11Ax Setting for Russia Bit 2 - Apply changes to country Russia. 11Ax Setting within module certification 00 - None. Work with Wi-Fi FW/OTP definitions [Default] 01 - Apply changes	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.38 11Ax Mode for Russia	11Ax Mode for Russia Bit 3 - 11Ax Mode. Effective only if Bit 2 set to 1 00 ??Disable 11Ax on country Russia [Default] 01 ??Enable 11Ax on country Russia	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.39 WRDS Package		
2.1.40 WiFi SAR	Enable/Disable WiFi SAR Tx Power Limit; DISABLE - Device ignores WiFi SAR Configuration Table; ENABLE - Device uses WiFi SAR Configuration Table	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.41 SAR 2400 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.1.42 SAR 5150-5350 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.43 SAR 5350-5470 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.44 SAR 5470-5725 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.45 SAR 5725-5925 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.46 SAR 5945-6165 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.1.47 SAR 6165-6405 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.48 SAR 6405-6525 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.49 SAR 6525-6705 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.50 SAR 6705-6865 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.51 SAR 6865-7105 MHz Set1 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.1.52 SAR 2400 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.53 SAR 5150-5350 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.54 SAR 5350-5470 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.55 SAR 5470-5725 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.56 SAR 5725-5925 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.1.57 SAR 5945-6165 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.58 SAR 6165-6405 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.59 SAR 6405-6525 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.60 SAR 6525-6705 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.61 SAR 6705-6865 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.1.62 SAR 6865-7105 MHz Set1 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.63 SAR CDB 2400 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.64 SAR CDB 5150-5350 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.65 SAR CDB 5350-5470 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.66 SAR CDB 5470-5725 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.1.67 SAR CDB 5725-5925 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.68 SAR CDB 5945-6165 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.69 SAR CDB 6165-6405 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.70 SAR CDB 6405-6525 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.71 SAR CDB 6525-6705 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.1.72 SAR CDB 6705-6865 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.73 SAR CDB 6865-7105 MHz Set1 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.74 SAR CDB 2400 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.75 SAR CDB 5150-5350 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.76 SAR CDB 5350-5470 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.1.77 SAR CDB 5470-5725 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.78 SAR CDB 5725-5925 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.79 SAR CDB 5945-6165 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.80 SAR CDB 6165-6405 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.81 SAR CDB 6405-6525 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.1.82 SAR CDB 6525-6705 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.83 SAR CDB 6705-6865 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.84 SAR CDB 6865-7105 MHz Set1 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.85 EWRD Package		
2.1.86 WiFi Dynamic SAR	Enable/Disable WiFi Dynamic SAR Tx Power Limit which shell be set dynamically accorting to the Proximity Sensor	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.87 Extended SAR Range Sets	Defines the WiFi SAR Sets that can be used to set the power limts dynamically based on the Proximity Sensor,Set 1 is always present if WiFi SAR enabled and Set 2-3 are additinoal sets	Possible Choices: • No Additional sets • Set 2 • Set 3 • Set 4 Default Value:

		• No Additional sets
2.1.88 SAR 2400 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.89 SAR 5150-5350 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.90 SAR 5350-5470 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.91 SAR 5470-5725 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.92 SAR 5725-5925 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.93 SAR 5945-6165 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.94 SAR 6165-6405 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.95 SAR 6405-6525 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.96 SAR 6525-6705 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.97 SAR 6705-6865 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.98 SAR 6865-7105 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.99 SAR 2400 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.100 SAR 5150-5350 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.101 SAR 5350-5470 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.102 SAR 5470-5725 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.103 SAR 5725-5925 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.104 SAR 5945-6165 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.105 SAR 6165-6405 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.106 SAR 6405-6525 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.107 SAR 6525-6705 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.108 SAR 6705-6865 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.109 SAR 6865-7105 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.110 SAR 2400 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.111 SAR 5150-5350 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.112 SAR 5350-5470 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.113 SAR 5470-5725 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.114 SAR 5725-5925 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.115 SAR 5945-6165 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.116 SAR 6165-6405 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.117 SAR 6405-6525 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.118 SAR 6525-6705 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.119 SAR 6705-6865 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.120 SAR 6865-7105 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.121 SAR 2400 MHz Set3 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.122 SAR 5150-5350 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.123 SAR 5350-5470 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.124 SAR 5470-5725 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.125 SAR 5725-5925 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.126 SAR 5945-6165 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.127 SAR 6165-6405 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.128 SAR 6405-6525 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.129 SAR 6525-6705 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.130 SAR 6705-6865 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.131 SAR 6865-7105 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.132 SAR 2400 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.133 SAR 5150-5350 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.134 SAR 5350-5470 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.135 SAR 5470-5725 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.136 SAR 5725-5925 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.137 SAR 5945-6165 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.138 SAR 6165-6405 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.139 SAR 6405-6525 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.140 SAR 6525-6705 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.141 SAR 6705-6865 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.142 SAR 6865-7105 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.143 SAR 2400 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.144 SAR 5150-5350 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.145 SAR 5350-5470 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.146 SAR 5470-5725 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.147 SAR 5725-5925 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.148 SAR 5945-6165 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.149 SAR 6165-6405 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.150 SAR 6405-6525 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.151 SAR 6525-6705 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.152 SAR 6705-6865 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.153 SAR 6865-7105 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.154 SAR CDB 2400 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.155 SAR CDB 5150-5350 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.156 SAR CDB 5350-5470 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.157 SAR CDB 5470-5725 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.158 SAR CDB 5725-5925 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.159 SAR CDB 5945-6165 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.160 SAR CDB 6165-6405 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.161 SAR CDB 6405-6525 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.162 SAR CDB 6525-6705 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.163 SAR CDB 6705-6865 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.164 SAR CDB 6865-7105 MHz Set2 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.165 SAR CDB 2400 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.166 SAR CDB 5150-5350 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.167 SAR CDB 5350-5470 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.168 SAR CDB 5470-5725 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.169 SAR CDB 5725-5925 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.170 SAR CDB 5945-6165 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.171 SAR CDB 6165-6405 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.172 SAR CDB 6405-6525 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.173 SAR CDB 6525-6705 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.174 SAR CDB 6705-6865 MHz Set2 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.175 SAR CDB 6865-7105 MHz Set2 Chain B	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.176 SAR CDB 2400 MHz Set3 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.177 SAR CDB 5150-5350 MHz Set3 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.178 SAR CDB 5350-5470 MHz Set3 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.179 SAR CDB 5470-5725 MHz Set3 Chain A	Defines the WiFi CDB SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.180 SAR CDB 5725-5925 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.181 SAR CDB 5945-6165 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.182 SAR CDB 6165-6405 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.183 SAR CDB 6405-6525 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.184 SAR CDB 6525-6705 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.185 SAR CDB 6705-6865 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.186 SAR CDB 6865-7105 MHz Set3 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.187 SAR CDB 2400 MHz Set3 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.188 SAR CDB 5150-5350 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.189 SAR CDB 5350-5470 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.190 SAR CDB 5470-5725 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.191 SAR CDB 5725-5925 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.192 SAR CDB 5945-6165 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.193 SAR CDB 6165-6405 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.194 SAR CDB 6405-6525 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.195 SAR CDB 6525-6705 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.196 SAR CDB 6705-6865 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.197 SAR CDB 6865-7105 MHz Set2 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.198 SAR CDB 2400 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.199 SAR CDB 5150-5350 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.200 SAR CDB 5350-5470 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.201 SAR CDB 5470-5725 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.202 SAR CDB 5725-5925 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.203 SAR CDB 5945-6165 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.204 SAR CDB 6165-6405 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.205 SAR CDB 6405-6525 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.206 SAR CDB 6525-6705 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.207 SAR CDB 6705-6865 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.208 SAR CDB 6865-7105 MHz Set4 Chain A	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.209 SAR CDB 2400 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.210 SAR CDB 5150-5350 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.211 SAR CDB 5350-5470 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.212 SAR CDB 5470-5725 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.213 SAR CDB 5725-5925 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.214 SAR CDB 5945-6165 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.215 SAR CDB 6165-6405 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.216 SAR CDB 6405-6525 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.217 SAR CDB 6525-6705 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.1.218 SAR CDB 6705-6865 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.219 SAR CDB 6865-7105 MHz Set4 Chain B	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.220 Antenna A Current Set	Current Set to be used 0 :Default OTP table 1-3 SAR Sets	Possible Choices: • Default OTP table • Set 1 • Set 2 • Set 3 • Set 4 Default Value: • Default OTP table
2.1.221 Antenna B Current Set	Current Set to be used 0 :Default OTP table 1-3 SAR Sets	Possible Choices: • Default OTP table • Set 1 • Set 2 • Set 3 • Set 4 Default Value: • Default OTP table
2.1.222 WGDS Package		
2.1.223 Number of Groups	The Number of Group that supported. The first 3 Mandatory. 4-7 OEMs	

	customizations.	Default Value: • 3 Numeric Range: Minimum Value: 0 Maximum Value: 8
2.1.224 SAR 2400 MHz Max Allowed for Group 1 (FCC)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.225 SAR 2400 MHz Chain A Offset for Group 1 (FCC)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.226 SAR 2400 MHz Chain B Offset for Group 1 (FCC)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.227 SAR 5200 MHz Max Allowed for Group 1 (FCC)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.228 SAR 5200 MHz Chain A Offset for Group 1 (FCC)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.229 SAR 5200 MHz Chain B Offset for Group 1 (FCC)	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.230 SAR 6000-7000 MHz Max Allowed for Group 1 (FCC)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.231 SAR 6000-7000 MHz Chain A Offset for Group 1 (FCC)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.232 SAR 6000-7000 MHz Chain B Offset for Group 1 (FCC)	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.233 SAR 2400 MHz Max Allowed for Group 2 (EU Japan)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.234 SAR 2400 MHz Chain A Offset for Group 2 (EU Japan)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.235 SAR 2400 MHz Chain B Offset for Group 2 (EU Japan)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.236 SAR 5200 MHz Max Allowed for Group 2 (EU Japan)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.237 SAR 5200 MHz Chain A Offset for Group 2 (EU Japan)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.238 SAR 5200 MHz Chain B Offset for Group 2 (EU Japan)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.239 SAR 6000-7000 MHz Max Allowed for Group 2 (EU Japan)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.240 SAR 6000-7000 MHz Chain A Offset for Group 2 (EU Japan)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.241 SAR 6000-7000 MHz Chain B Offset for Group 2 (EU Japan)	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.242 SAR 2400 MHz Max Allowed for Group 3 (ROW)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.243 SAR 2400 MHz Chain A Offset for Group 3 (ROW)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.244 SAR 2400 MHz Chain B Offset for Group 3 (ROW)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.245 SAR 5200 MHz Max Allowed for Group 3 (ROW)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.246 SAR 5200 MHz Chain A Offset for Group 3 (ROW)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.247 SAR 5200 MHz Chain B Offset for Group 3 (ROW)	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.248 SAR 6000-7000 MHz Max Allowed for Group 3 (ROW)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.249 SAR 6000-7000 MHz Chain A Offset for Group 3 (ROW)	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.250 SAR 6000-7000 MHz Chain B Offset for Group 3 (ROW)	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.251 SAR 2400 MHz Max Allowed for Group 4	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.252 SAR 2400 MHz Chain A Offset for Group 4	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.253 SAR 2400 MHz Chain B Offset for Group 4	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.254 SAR 5200 MHz Max Allowed for Group 4	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.255 SAR 5200 MHz Chain A Offset for Group 4	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.256 SAR 5200 MHz Chain B Offset for Group 4	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.257 SAR 6000-7000 MHz Max Allowed for Group 4	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.258 SAR 6000-7000 MHz Chain A Offset for Group 4	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.259 SAR 6000-7000 MHz Chain B Offset for Group 4	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.260 SAR 2400 MHz Max Allowed for Group 5	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.261 SAR 2400 MHz Chain A Offset for Group 5	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.262 SAR 2400 MHz Chain B Offset for Group 5	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.263 SAR 5200 MHz Max Allowed for Group 5	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.264 SAR 5200 MHz Chain A Offset for Group 5	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.265 SAR 5200 MHz Chain B Offset for Group 5	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.266 SAR 6000-7000 MHz Max Allowed for Group 5	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.267 SAR 6000-7000 MHz Chain A Offset for Group 5	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.268 SAR 6000-7000 MHz Chain B Offset for Group 5	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00	

	= 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.269 SAR 2400 MHz Max Allowed for Group 6	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.270 SAR 2400 MHz Chain A Offset for Group 6	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.271 SAR 2400 MHz Chain B Offset for Group 6	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.272 SAR 5200 MHz Max Allowed for Group 6	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.273 SAR 5200 MHz Chain A Offset for Group 6	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.274 SAR 5200 MHz Chain B Offset for Group 6	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.275 SAR 6000-7000 MHz Max Allowed for Group 6	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.276 SAR 6000-7000 MHz Chain A Offset for Group 6	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.277 SAR 6000-7000 MHz Chain B Offset for Group 6	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.278 SAR 2400 MHz Max Allowed for Group 7	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.279 SAR 2400 MHz Chain A Offset for Group 7	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.280 SAR 2400 MHz Chain B Offset for Group 7	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.281 SAR 5200 MHz Max Allowed for Group 7	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.282 SAR 5200 MHz Chain A Offset for Group 7	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.283 SAR 5200 MHz Chain B Offset for Group 7	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00	

	= 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.284 SAR 6000-7000 MHz Max Allowed for Group 7	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.285 SAR 6000-7000 MHz Chain A Offset for Group 7	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.286 SAR 6000-7000 MHz Chain B Offset for Group 7	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.287 SAR 2400 MHz Max Allowed for Group 8	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.288 SAR 2400 MHz Chain A Offset for Group 8	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.289 SAR 2400 MHz Chain B Offset for Group 8	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.290 SAR 5200 MHz Max Allowed for Group 8	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.291 SAR 5200 MHz Chain A Offset for Group 8	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.292 SAR 5200 MHz Chain B Offset for Group 8	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.293 SAR 6000-7000 MHz Max Allowed for Group 8	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and	

	3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.294 SAR 6000-7000 MHz Chain A Offset for Group 8	Defines the WiFi SAR Delta Value to be applied - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.295 SAR 6000-7000 MHz Chain B Offset for Group 8	Defines the WiFi SAR Tx Power Limit - 8bit unsigned with 5bit integer and 3bit fractional. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.296 M.2-1A platform current consumption capability (MPCC)		
2.1.297 M.2-1A Assembled	Defines if M.2-1A is assembled in platform	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.298 Platform Current Consumption (A)	Platform Current Consumption in ampere	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.299 External 32kHz Clock	This will be used to specify that	

	platform does have valid External 32kHz clock or not..	Possible Choices: • Not Valid • Valid Default Value: • Not Valid
2.1.300 PPAG Package		
2.1.301 WiFi ANT Gain Mode	Enable / Disable WiFi Antenna Gain control.	Possible Choices: • Disable PPAG for ETSI and China • Enable PPAG only for ETSI • Enable PPAG only for China • Enable PPAG for ETSI and China Default Value: • Disable PPAG for ETSI and China
2.1.302 ANT Gain 2400 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 24 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.303 ANT Gain 5180-5320 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.304 Ant Gain 5340-5440 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is	Default Value: • 40

	equivalent to 0.125dB	Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.305 Ant Gain 5460-5700 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.306 Ant Gain 5720-5825 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.307 Ant Gain 5845-6135 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.308 Ant Gain 6155-6375 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.309 Ant Gain 6395-6495 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is	Default Value: • 40

	equivalent to 0.125dB	Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.310 Ant Gain 6515-6675 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.311 Ant Gain 6695-6835 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.312 Ant Gain 6855-7095 MHz Chain A	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.313 Ant Gain 2400 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 24 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.314 ANT Gain 5180-5320 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is	Default Value: • 40

	equivalent to 0.125dB	Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.315 Ant Gain 5340-5440 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.316 Ant Gain 5460-5700 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.317 Ant Gain 5720-5825 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.318 Ant Gain 5845-6135 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.319 Ant Gain 6155-6375 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is	Default Value: • 40

	equivalent to 0.125dB	Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.320 Ant Gain 6395-6495 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.321 Ant Gain 6515-6675 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.322 Ant Gain 6695-6835 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.323 Ant Gain 6855-7095 MHz Chain B	Defines the WiFi ANT gain Delta Value to be applied - 8bit signed Two's complement 0.125dB. 0x80 = 0b10000000 = -16dB; 0x7F = 0b01111111 = 15.875dB. Each step is equivalent to 0.125dB	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.324 Bluetooth SAR	Define the mode of SAR control to be used. Disabled: Tx power shall be mandated by device NVM	Default Value: • 0

	Enabled: Tx power shall be the minimum between BIOS SAR table and BT Device NVM (either Module or Platform)	Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.325 Bluetooth Increased Power Mode	Defines Bluetooth Increased Power Mode. SAR Limitation feature enablement/disablement	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.1.326 Bluetooth SAR Power Limit 2400 Chain A	Bluetooth SAR power restriction for the Lower Band (LB) - 2400MHz frequency Chain A. 0x00 = 0b00000000 = 0.125dB; 0xFF = 0b11111111 = 31.875dB. Each step is equivalent to 0.125dB	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.327 Bluetooth SAR BR	Defines the SAR power restriction for BR Modulation	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.328 Bluetooth SAR EDR2	Defines the SAR power restriction for EDR2 Modulation	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.329 Bluetooth SAR EDR3	Defines the SAR power restriction for EDR3 Modulation	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 255
2.1.330 Bluetooth SAR LE	Defines the SAR power restriction for LE Modulation	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.331 Bluetooth SAR LE 2Mhz	Defines the SAR power restriction for LE 2Mhz Modulation	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.332 Bluetooth SAR LE LR	Defines the SAR power restriction for LE LR Modulation	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.1.333 Disable SRD Active Channels	Enable/Disable SRD Active Channels 00 - ETSI 5.8 GHz SRD Active Scan Enable 01 - ETSI 5.8 GHz SRD Passive Scan Enable 02 - ETSI 5.8 GHz SRD Disabled	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 2
2.1.334 Supported Indonesia 5.15-5.35 GHz Band	Enable/Disable Indonesia 5.15-5.35 GHz 00 - Set 5.15-5.35 GHz to Disable in Indonesia 01 - Set 5.15-5.35 GHz to Enable (Passive) in Indonesia	Default Value: • 0 Numeric Range:

	02 - Reserved	Minimum Value: 0 Maximum Value: 2
2.1.335 Ultra High Band Support	Please input HEX value. Bit0 '0' No override [Default] '1' Only allow countries enabled in the following bits Bit1 - USA '0' USA 6GHz disable '1' 6GHz allowed in USA Bit2 - Rest of World Bit3 - EU countries Bit4 - South Korea Bit5 - Brazil Bit6 - Chile Bit7 - Japan Bit8 - Canada Bit9 - Morocco Bit10 - Mongolia Bit11 - Malaysia Bit31:12 - Reserved	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4294967295
2.1.336 Regulatory Configurations	Enabling DRS for China Location	Possible Choices: • Disable DRS for China Location • Enable DRS for China Location Default Value: • Disable DRS for China Location
2.1.337 UART Configurations	TBD	Possible Choices: • Default Default Value: • Default
2.1.338 UNII-4	Control Enablement UNII-4 over certificate modules Please input HEX value. FCC Bit0 - Apply changes over FCC,	Default Value: • 0

	UNII-4 setting within module certification (Default Intel module definitions) '0' Work with WiFi FW/OTP definitions '1' Apply changes Bit1 - UNII-4 mode on FCC '0' Disable UNII-4 '1' Enable UNII-4 ETSI Bit2 - Apply changes over ETSI, UNII-4 setting within module certification (Default Intel module definitions) Bit3 - UNII-4 mode on ETSI Bit31:4 - Reserved shall set to zeros	Numeric Range: Minimum Value: 0 Maximum Value: 4294967295
2.1.339 Indoor Control	Device for Indoor Use Only (Solar Family onwards) Please input HEX value. Bit0 - EU Bit1 - Japan Bit2 - China, applied only in case of China BIOS or DRS in China Enabled Bit3 - USA Bit31:4 - Reserved shall set to zeros	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4294967295
2.1.340 Wi-Fi Band Selection	Give the ability to selectively enable/disable Wi-Fi bands on platform. Please input HEX value. Bit value '0' Band selection Controlled by NIC [Default] '1' Force disable the band Bit0 - 2.4 GHz Bit1 - 5.2 GHz Bit2 - 5.3 GHz Bit3 - 5.5 GHz Bit4 - 5.8 GHz Bit5 - 5.9 GHz Bit6 - 6.2 GHz	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4294967295

	Bit7 - 6.5 GHz Bit8 - 6.6 GHz Bit9 - 6.8 GHz Bit10 - 7.0 GHz Bit31:11 - Reserved	
2.1.341 Wi-Fi Band Selection	Give the ability to selectively enable/disable Wi-Fi bands on platform. Please input HEX value. Bit value '0' Band selection Controlled by NIC [Default] '1' Force disable the band Bit0 - 2.4 GHz Bit1 - 5.2 GHz Bit2 - 5.3 GHz Bit3 - 5.5 GHz Bit4 - 5.8 GHz Bit5 - 5.9 GHz Bit6 - 6.2 GHz Bit7 - 6.5 GHz Bit8 - 6.6 GHz Bit9 - 6.8 GHz Bit10 - 7.0 GHz Bit31:11 - Reserved	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4294967295
2.1.342 Wi-Fi 7 enablement/disablement	Please input HEX value. Bit0 '0' No override [Default] '1' Force disable all countries that are not defined in the following bits Bit1 - USA '0' USA Wi-Fi disable '1' Wi-Fi 7 allowed in the USA Bit31:2 - Reserved	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4294967295
2.1.343 WiFi Time Average SAR - WTAS		
2.1.344 WTAS Selection	Please input HEX value. Bit0 - Enable TAS feature. '0' TAS Disabled [Default] '1' TAS Enabled Bit1 - IEC Optimization, override NIC configuration (BIOSoverideTASrIEC),Allow	Default Value: • 0 Numeric Range: Minimum Value: 0

	override NIC defaults. '0' No override, use device settings. '1' Override IEC Optimization, effected over certified NIC. The Value will set by Bit #2. Bit2 - IEC Optimization Control Valve (BIOCenTrIC).This bit impact only incase that Bit #1 set to '1' and the NIC is certified to support TAS over IEC. '0' Disabled TAS IEC optimization regulatory averaging time '1' Enabled TAS IEC optimization regulatory averaging time Bit31:3 - Reserved	Maximum Value: 4294967295
2.1.345 WTAS List Entries	No. of blocked countries not approved by OEM to support this feature.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.1.346 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.347 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535

2.1.348 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.349 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.350 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.351 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.352 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535

2.1.353 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.354 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.355 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.356 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.357 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535

2.1.358 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.359 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.360 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.361 ISO country code to block	The decimal equivalent of country code (a two-ASCII-character) as specified in ISO_3166-1. Ex. for JP - 19024	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.362 WLAN/WWAN Antenna Isolation		
2.1.363 WLAN/WWAN Low Band Isolation	Isolation between WLAN and WWAN in WiFi Low Band (2.4 GHz). Range: 15 - 40 dB	Default Value: • 15 Numeric Range: Minimum Value: 15

		Maximum Value: 40
2.1.364 WLAN/WWAN High Band Isolation	Isolation between WLAN and WWAN in WiFi High Band (5.2-7 GHz). Range: 15 - 40 dB	Default Value: • 15 Numeric Range: Minimum Value: 15 Maximum Value: 40
2.1.365 WWAN Configuration		
2.1.365.1 WWAN Device	Select the M.2 WWAN Device options to enable 4G - 7360/7560 (Intel), 5G - M80 (MediaTek) Modems	Possible Choices: • Disabled • 4G - 7360/7560 • 5G - M80 Default Value: • Disabled
2.1.365.2 Firmware Flash Device	Enable or Disable WWAN Firmware Flash Device	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.1.365.3 Wireless CNV Config Device	Enable or Disable WCCD ACPI device node	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.1.365.4 WWAN Reset Workaround	Enabling this workaround will result in BIOS asserting FULL_CARD_POWER_OFF#, PERST# and RESET# WWAN signals before the WWAN Device Power-On Sequence is executed. Disabling it has no impact.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.1.365.5 WA - WWAN OEM SVID	WWAN OEM Sub-Vendor ID	Default Value: • 7416 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.365.6 WA - WWAN SVID Detect Timeout	The timeout value (ms) for detecting WWAN OEM SVID. Please notice it's workaround for OEM only.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.365.7 5G M80 Modem Timing Delay Configuration		
2.1.365.8 TOn2Res	To confgure the delay(ms) between de-assertion of FCPO# and de-assertion of BBRST# during WWAN ON	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.365.9 TOnRes2Per	To confgure the delay(ms) between de-assertion of BBRST# and de-assertion of PERST# during WWAN ON	Default Value: • 80 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.365.10 TOnPer2Pds	To confgure the delay(ms) between de-assertion of PERST# and change of PDS state from 0 to 1 during WWAN ON	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 65535
2.1.365.11 TPer2Res	To confgure the delay(ms) between assertion of PERST# and assertion of BBRST# during WWAN OFF	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.365.12 TRes2Off	To confgure the delay(ms) between assertion of BBRST# and assertion of FCPO# during WWAN OFF	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.365.13 TOffDis	To confgure the rigorous shutdown time(ms) for WWAN post-assertion FCPO#	Default Value: • 500 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.365.14 TResTog	To confgure the delay(ms) between assertion and de-assertion BBRST# during _RST invocation	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.1.365.15 TRes2Pds	To confgure the delay(ms) between de-assertion of BBRST# and change of PDS state from 0 to 1	Default Value: • 10 Numeric Range:

		Minimum Value: 0 Maximum Value: 65535
2.2 CPU Configuration		
2.2.1 Efficient-core Information		
2.2.1.1 L1 Data Cache	Displays the Efficient-core L1 Data Cache size.	
2.2.1.2 L1 Instruction Cache	Displays the Efficient-core L1 Instruction Cache size.	
2.2.1.3 L2 Cache	Displays the Efficient-core L2 Cache size.	
2.2.1.4 L3 Cache	Displays the Efficient-core L3 Cache size.	
2.2.2 Performance-core		
2.2.2.1 L1 Data Cache	Displays the Performance-core L1 Data Cache size.	
2.2.2.2 L1 Instruction Cache	Displays the Performance-core L1 Instruction Cache size.	
2.2.2.3 L2 Cache	Displays the Performance-core L2 Cache size.	
2.2.2.4 L3 Cache	Displays the Performance-core L3 Cache size.	
2.2.3 ID	Displays the Processor ID.	
2.2.4 Brand String	Brand String of the Performance Processor	
2.2.5 VMX	VMX Supported or Not	
2.2.6 SMX/TXT	SMX/TXT Supported or Not	
2.2.7 TXT Crash Code	TXT Crash Code Register value	
2.2.8 TXT SPAD	TXT SPAD Register value	
2.2.9 Boot Guard Status	Boot Guard Status Register value	
2.2.10 Boot Guard ACM Policy Status	Boot Guard ACM Policy Status value	
2.2.11 Boot Guard SACM Information	Boot Guard SACM Info MSR	

	value	
2.2.12 Intel (VMX) Virtualization Technology	When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.2.13 Active Performance-cores	Number of P-cores to enable in each processor package. Note: Number of Cores and E-Cores are looked at together. When both are {0,0}, Pcode will enable all cores.	Possible Choices: • All • 7 • 6 • 5 • 4 • 3 • 2 • 1 Default Value: • All
2.2.14 Active Efficient-cores	Number of E-cores to enable in each processor package. Note: Number of Cores and E-Cores are looked at together. When both are {0,0}, Pcode will enable all cores.	Possible Choices: • All • 31 • 30 • 29 • 28 • 27 • 26 • 25 • 24 • 23 • 22 • 21 • 20 • 19 • 18 • 17 • 16 • 15 • 14 • 13 • 12 • 11 • 10 • 9

		• 8 • 7 • 6 • 5 • 4 • 3 • 2 • 1 • 0 Default Value: • All
2.2.15 Active SOC-North Efficient-cores	Number of SOC-North Efficient-cores to enable in SOC North.	Possible Choices: • All • 1 • 0 Default Value: • All
2.2.16 Hyper-Threading	Enable or Disable Hyper-Threading Technology.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.2.17 Legacy Game Compatibility Mode	When enabled, Pressing the scroll lock key will toggle the Efficient-cores between being parked when Scroll Lock LED is on and un-parked when LED is off.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3 Power & Performance		
2.3.1 CPU - Power Management Control		
2.3.1.1 Boot Max Frequency	Enable/Disable Boot Maximum Frequency in CPU strap.	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.3.1.2 Boot performance mode	Select the performance state that the BIOS will set starting from reset vector.	Possible Choices: • Max Battery • Max Non-Turbo Performance • Turbo Performance Default Value: • Turbo Performance
2.3.1.3 Intel(R) SpeedStep(tm)	Allows more than two frequency ranges to be supported.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.4 Race To Halt (RTH)	Enable/Disable Race To Halt feature. RTH will dynamically increase CPU frequency in order to enter pkg C-State faster to reduce overall power.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.5 Intel(R) Speed Shift Technology	Enable/Disable Intel(R) Speed Shift Technology support. Enabling will expose the CPPC v2 interface to allow for hardware controlled P-states.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.6 Resource Priority Feature	Enable/Disable Resource Priority Feature support.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.7 Per Core P State OS control mode	Enable/Disable Per Core P state OS control mode. When set, the highest core request is used for	Possible Choices:

	all other core requests.	• Disabled • Enabled Default Value: • Enabled
2.3.1.8 HwP Autonomous Per Core P State	Disable Autonomous PCPS Autonomous will request the same value for all cores all the time.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.9 HwP Autonomous EPP Grouping	Enable EPP grouping Autonomous will request the same values for all cores with same EPP. Disable EPP grouping autonomous will not necessarily request same values for all cores with same EPP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.10 HwP Lock	Enable/Disable HWP Lock support in Misc Power Management MSR.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.11 Turbo Mode	Enable/Disable processor Turbo Mode.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.12 View/Configure Turbo Options		
2.3.1.12.1 Current Turbo Settings		
2.3.1.12.2 Max Turbo Power Limit		
2.3.1.12.3 Min Turbo Power Limit		
2.3.1.12.4 Package TDP Limit	Package Processor Base Power	

	(TDP) Limit	
2.3.1.12.5 Power Limit 1	Power Limit 1 in Milli Watts. BIOS will round to the nearest 1/8W when programming. 0 = no custom override. For 12.50W, enter 12500. Overclocking SKU: Value must be between Max and Min Power Limits. Other SKUs: This value must be between Min Power Limit and Processor Base Power (TDP) Limit. If value is 0, BIOS will program Processor Base Power (TDP) value.	
2.3.1.12.6 Power Limit 2	Power Limit 2 value in Milli Watts. BIOS will round to the nearest 1/8W when programming. If the value is 0, BIOS will program this value as 1.25*Processor Base Power (TDP). For 12.50W, enter 12500. Processor applies control policies such that the package power does not exceed this limit.	
2.3.1.12.7 Turbo Ratio Limit Options		
2.3.1.12.7.1 Current Turbo Ratio Limit Settings		
2.3.1.12.7.2 P-core Turbo Ratio Limit Core0 (TRLC)	Performance-core Turbo Ratio Limit Core0 (TRLC) defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio0. If value is zero, this entry is ignored.	
2.3.1.12.7.3 P-core Turbo Ratio Limit Core1 (TRLC)	Performance-core Turbo Ratio Limit Core1 (TRLC) defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio1. If value is zero, this entry is ignored.	
2.3.1.12.7.4 P-core Turbo Ratio Limit Core2 (TRLC)	Performance-core Turbo Ratio Limit Core2 (TRLC) defines the core range, the turbo ratio is	

	defined in Turbo Ratio Limit Ratio2. If value is zero, this entry is ignored.	
2.3.1.12.7.5 P-core Turbo Ratio Limit Core3 (TRLC)	Performance-core Turbo Ratio Limit Core3 (TRLC)defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio3. If value is zero, this entry is ignored.	
2.3.1.12.7.6 P-core Turbo Ratio Limit Core4 (TRLC)	Performance-core Turbo Ratio Limit Core4 (TRLC) defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio4. If value is zero, this entry is ignored.	
2.3.1.12.7.7 P-core Turbo Ratio Limit Core5 (TRLC)	Performance-core Turbo Ratio Limit Core5 (TRLC) defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio5. If value is zero, this entry is ignored.	
2.3.1.12.7.8 P-core Turbo Ratio Limit Core6 (TRLC)	Performance-core Turbo Ratio Limit Core6 (TRLC) defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio6. If value is zero, this entry is ignored.	
2.3.1.12.7.9 P-core Turbo Ratio Limit Core7 (TRLC)	Performance-core Turbo Ratio Limit Core7 (TRLC) defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio7. If value is zero, this entry is ignored.	
2.3.1.12.7.10 P-core Turbo Ratio Limit Ratio0 (TRLR)	Performance-core Turbo Ratio Limit Ratio0 (TRLR)	
2.3.1.12.7.11 P-core Turbo Ratio Limit Ratio1 (TRLR)	Performance-core Turbo Ratio Limit Ratio1 (TRLR)	
2.3.1.12.7.12 P-core Turbo Ratio Limit Ratio2 (TRLR)	Performance-core Turbo Ratio Limit Ratio2 (TRLR)	
2.3.1.12.7.13 P-core Turbo Ratio Limit Ratio3 (TRLR)	Performance-core Turbo Ratio Limit Ratio3 (TRLR)	

	2.3.1.12.7.14 P-core Turbo Ratio Limit Ratio4 (TRLR)	Performance-core Turbo Ratio Limit Ratio4 (TRLR)	
	2.3.1.12.7.15 P-core Turbo Ratio Limit Ratio5 (TRLR)	Performance-core Turbo Ratio Limit Ratio5 (TRLR)	
	2.3.1.12.7.16 P-core Turbo Ratio Limit Ratio6 (TRLR)	Performance-core Turbo Ratio Limit Ratio6 (TRLR)	
	2.3.1.12.7.17 P-core Turbo Ratio Limit Ratio7 (TRLR)	Performance-core Turbo Ratio Limit Ratio7 (TRLR)	
	2.3.1.12.7.18 E-core Turbo Ratio Limit CoreCount0	Efficient-core Turbo Ratio Limit CoreCount0 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio0. If value is zero, this entry is ignored.	
	2.3.1.12.7.19 E-core Turbo Ratio Limit CoreCount1	Efficient-core Turbo Ratio Limit CoreCount1 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio1. If value is zero, this entry is ignored.	
	2.3.1.12.7.20 E-core Turbo Ratio Limit CoreCount2	Efficient-core Turbo Ratio Limit CoreCount2 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio2. If value is zero, this entry is ignored.	
	2.3.1.12.7.21 E-core Turbo Ratio Limit CoreCount3	Efficient-core Turbo Ratio Limit CoreCount3 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio3. If value is zero, this entry is ignored.	
	2.3.1.12.7.22 E-core Turbo Ratio Limit CoreCount4	Efficient-core Turbo Ratio Limit CoreCount4 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio4. If value is zero, this entry is ignored.	
	2.3.1.12.7.23 E-core Turbo Ratio Limit CoreCount5	Efficient-core Turbo Ratio Limit CoreCount5 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit	

	Ratio5. If value is zero, this entry is ignored.	
2.3.1.12.7.24 E-core Turbo Ratio Limit CoreCount6	Efficient-core Turbo Ratio Limit CoreCount6 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio6. If value is zero, this entry is ignored.	
2.3.1.12.7.25 E-core Turbo Ratio Limit CoreCount7	Efficient-core Turbo Ratio Limit CoreCount7 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio7. If value is zero, this entry is ignored.	
2.3.1.12.7.26 E-core Turbo Ratio Limit Ratio0	Efficient-core Turbo Ratio Limit Ratio0 defines the turbo ratio, the core range is defined in E-core Turbo Ratio Limit CoreCount0.	
2.3.1.12.7.27 E-core Turbo Ratio Limit Ratio1	Efficient-core Turbo Ratio Limit Ratio1 defines the turbo ratio, the core range is defined in E-core Turbo Ratio Limit CoreCount1.	
2.3.1.12.7.28 E-core Turbo Ratio Limit Ratio2	Efficient-core Turbo Ratio Limit Ratio2 defines the turbo ratio, the core range is defined in E-core Turbo Ratio Limit CoreCount2.	
2.3.1.12.7.29 E-core Turbo Ratio Limit Ratio3	Efficient-core Turbo Ratio Limit Ratio3 defines the turbo ratio, the core range is defined in E-core Turbo Ratio Limit CoreCount3.	
2.3.1.12.7.30 E-core Turbo Ratio Limit Ratio4	Efficient-core Turbo Ratio Limit Ratio4 defines the turbo ratio, the core range is defined in E-core Turbo Ratio Limit CoreCount4.	
2.3.1.12.7.31 E-core Turbo Ratio Limit Ratio5	Efficient-core Turbo Ratio Limit Ratio5 defines the turbo ratio, the core range is defined in E-core Turbo Ratio Limit	

	CoreCount5.	
2.3.1.12.7.32 E-core Turbo Ratio Limit Ratio6	Efficient-core Turbo Ratio Limit Ratio6 defines the turbo ratio, the core range is defined in E-core Turbo Ratio Limit CoreCount6.	
2.3.1.12.7.33 E-core Turbo Ratio Limit Ratio7	Efficient-core Turbo Ratio Limit Ratio7 defines the turbo ratio, the core range is defined in E-core Turbo Ratio Limit CoreCount7.	
2.3.1.12.7.34 P-core Turbo Ratio Limit Core0	Performance-core Turbo Ratio Limit Core0 defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio0. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.35 P-core Turbo Ratio Limit Core1	Performance-core Turbo Ratio Limit Core1 defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio1. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.36 P-core Turbo Ratio Limit Core2	Performance-core Turbo Ratio Limit Core2 defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio2. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.37 P-core Turbo Ratio Limit Core3	Performance-core Turbo Ratio Limit Core3 defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio3. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.38 P-core Turbo Ratio Limit Core4	Performance-core Turbo Ratio Limit Core4 defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio4. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.39 P-core Turbo Ratio Limit Core5	Performance-core Turbo Ratio Limit Core5 defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio5. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.40 P-core Turbo Ratio Limit Core6	Performance-core Turbo Ratio Limit Core6 defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio6. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.41 P-core Turbo Ratio Limit Core7	Performance-core Turbo Ratio Limit Core7 defines the core range, the turbo ratio is defined in Turbo Ratio Limit Ratio7. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.42 P-core Turbo Ratio Limit Ratio0 (TRLR)	Performance-core Turbo Ratio Limit Ratio0 (TRLR) defines the turbo ratio (max is 85 in normal mode and 120 in core extension mode).This Turbo Ratio Limit Ratio0 must be greater than or equal all other ratio values. If	Default Value: • 0 Numeric Range:

	this value is invalid, thn set all other active cores to minimum. Otherwise, align the Ratio Limit to 0. Please check each active cores If PTR is enabled, it will override the higher value and only accept lower values.	Minimum Value: 0 Maximum Value: 120
2.3.1.12.7.43 P-core Turbo Ratio Limit Ratio1 (TRLR)	Performance-core Turbo Ratio Limit Ratio1 (TRLR) defines the turbo ratio (max is 85 in normal mode and 120 in core extension mode).This Turbo Ratio Limit Ratio1 must be <= to Turbo Ratio Limit Ratio0. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 120
2.3.1.12.7.44 P-core Turbo Ratio Limit Ratio2 (TRLR)	Performance-core Turbo Ratio Limit Ratio2 (TRLR) defines the turbo ratio (max is 85 in normal mode and 120 in core extension mode).This Turbo Ratio Limit Ratio2 must be <= to Turbo Ratio Limit Ratio1. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 120
2.3.1.12.7.45 P-core Turbo Ratio Limit Ratio3 (TRLR)	Performance-core Turbo Ratio Limit Ratio3 (TRLR) defines the turbo ratio (max is 85 in normal mode and 120 in core extension mode).This Turbo Ratio Limit Ratio3 must be <= to Turbo Ratio Limit Ratio2. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 120
2.3.1.12.7.46 P-core Turbo Ratio Limit Ratio4 (TRLR)	Performance-core Turbo Ratio Limit Ratio4 (TRLR) defines the turbo ratio (max is 85 in normal	

	mode and 120 in core extension mode).This Turbo Ratio Limit Ratio4 must be <= to Turbo Ratio Limit Ratio3. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 120
2.3.1.12.7.47 P-core Turbo Ratio Limit Ratio5 (TRLR)	Performance-core Turbo Ratio Limit Ratio5 (TRLR) defines the turbo ratio (max is 85 in normal mode and 120 in core extension mode).This Turbo Ratio Limit Ratio5 must be <= to Turbo Ratio Limit Ratio4. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 120
2.3.1.12.7.48 P-core Turbo Ratio Limit Ratio6 (TRLR)	Performance-core Turbo Ratio Limit Ratio6 (TRLR) defines the turbo ratio (max is 85 in normal mode and 120 in core extension mode).This Turbo Ratio Limit Ratio6 must be <= to Turbo Ratio Limit Ratio5. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 120
2.3.1.12.7.49 P-core Turbo Ratio Limit Ratio7 (TRLR)	Performance-core Turbo Ratio Limit Ratio7 (TRLR) defines the turbo ratio (max is 85 in normal mode and 120 in core extension mode).This Turbo Ratio Limit Ratio7 must be <= to Turbo Ratio Limit Ratio6. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 120
2.3.1.12.7.50 E-core Turbo Ratio Limit CoreCount0	Efficient-core Turbo Ratio Limit CoreCount0 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio0. If value is zero, this entry	Default Value: • 0

	is ignored.	Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.51 E-core Turbo Ratio Limit CoreCount1	Efficient-core Turbo Ratio Limit CoreCount1 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio1. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.52 E-core Turbo Ratio Limit CoreCount2	Efficient-core Turbo Ratio Limit CoreCount2 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio2. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.53 E-core Turbo Ratio Limit CoreCount3	Efficient-core Turbo Ratio Limit CoreCount3 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio3. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.54 E-core Turbo Ratio Limit CoreCount4	Efficient-core Turbo Ratio Limit CoreCount4 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio4. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.55 E-core Turbo Ratio Limit CoreCount5	Efficient-core Turbo Ratio Limit CoreCount5 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio5. If value is zero, this entry	Default Value: • 0

	is ignored.	Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.56 E-core Turbo Ratio Limit CoreCount6	Efficient-core Turbo Ratio Limit CoreCount6 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio6. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.57 E-core Turbo Ratio Limit CoreCount7	Efficient-core Turbo Ratio Limit CoreCount7 defines the core range, the turbo ratio is defined in E-core Turbo Ratio Limit Ratio7. If value is zero, this entry is ignored.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.12.7.58 E-core Turbo Ratio Limit Ratio0	Efficient-core Turbo Ratio Limit Ratio0 defines the turbo ratio (max is 85 irrespective of the core extension mode), the core range is defined in E-core Turbo Ratio Limit CoreCount0. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 85
2.3.1.12.7.59 E-core Turbo Ratio Limit Ratio1	Efficient-core Turbo Ratio Limit Ratio1 defines the turbo ratio (max is 85 irrespective of the core extension mode), the core range is defined in E-core Turbo Ratio Limit CoreCount1. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 85
2.3.1.12.7.60 E-core Turbo Ratio Limit Ratio2	Efficient-core Turbo Ratio Limit Ratio2 defines the turbo ratio (max is 85 irrespective of the	

	core extension mode), the core range is defined in E-core Turbo Ratio Limit CoreCount2. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 85
2.3.1.12.7.61 E-core Turbo Ratio Limit Ratio3	Efficient-core Turbo Ratio Limit Ratio3 defines the turbo ratio (max is 85 irrespective of the core extension mode), the core range is defined in E-core Turbo Ratio Limit CoreCount3. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 85
2.3.1.12.7.62 E-core Turbo Ratio Limit Ratio4	Efficient-core Turbo Ratio Limit Ratio4 defines the turbo ratio (max is 85 irrespective of the core extension mode), the core range is defined in E-core Turbo Ratio Limit CoreCount4. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 85
2.3.1.12.7.63 E-core Turbo Ratio Limit Ratio5	Efficient-core Turbo Ratio Limit Ratio5 defines the turbo ratio (max is 85 irrespective of the core extension mode), the core range is defined in E-core Turbo Ratio Limit CoreCount5. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 85
2.3.1.12.7.64 E-core Turbo Ratio Limit Ratio6	Efficient-core Turbo Ratio Limit Ratio6 defines the turbo ratio (max is 85 irrespective of the core extension mode), the core range is defined in E-core Turbo Ratio Limit CoreCount6. If PTR is enabled, it will override the higher value and only	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 85

	accept lower values.	
2.3.1.12.7.65 E-core Turbo Ratio Limit Ratio7	Efficient-core Turbo Ratio Limit Ratio7 defines the turbo ratio (max is 85 irrespective of the core extension mode), the core range is defined in E-core Turbo Ratio Limit CoreCount7. If PTR is enabled, it will override the higher value and only accept lower values.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 85
2.3.1.12.8 Energy Efficient P-state	Enable/Disable Energy Efficient P-state feature. When set to 0, will disable access to ENERGY_PERFORMANCE_BIAS MSR and CPUID Function will read 0 indicating no support for Energy Efficient policy setting. When set to 1 will enable access to ENERGY_PERFORMANCE_BIAS MSR and CPUID Function will read 1 indicating Energy Efficient policy setting is supported.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.12.9 Package Power Limit MSR Lock	Enable/Disable locking of Package Power Limit settings. When enabled, PACKAGE_POWER_LIMIT MSR will be locked and a reset will be required to unlock the register.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.12.10 Power Limit 1 Override	Enable/Disable Power Limit 1 override. If this option is disabled, BIOS will program the default values for Power Limit 1 and Power Limit 1 Time Window.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.12.11 Power Limit 1	Power Limit 1 in Milli Watts. BIOS will round to the nearest 1/8W when programming. 0 = no custom override. For 12.50W,	Default Value: • 0

	enter 12500. Overclocking SKU: Value must be between Max and Min Power Limits. Other SKUs: This value must be between Min Power Limit and Processor Base Power (TDP) Limit. If value is 0, BIOS will program Processor Base Power (TDP) value.	Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.12.12 Power Limit 1 Time Window	Power Limit 1 Time Window value in seconds. The value may vary from 0 to 128. 0 = default value (28 sec for Mobile and 8 sec for Desktop). Defines time window which Processor Base Power (TDP) value should be maintained.	Possible Choices: • 0 • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 10 • 12 • 14 • 16 • 20 • 24 • 28 • 32 • 40 • 48 • 56 • 64 • 80 • 96 • 112 • 128 Default Value: • 0
2.3.1.12.13 Power Limit 2 Override	Enable/Disable Power Limit 2 override. If this option is disabled, BIOS will program the default values for Power Limit 2.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.3.1.12.14 Power Limit 2	Power Limit 2 value in Milli Watts. BIOS will round to the nearest 1/8W when programming. If the value is 0, BIOS will program this value as 1.25*Processor Base Power (TDP). For 12.50W, enter 12500. Processor applies control policies such that the package power does not exceed this limit.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.12.15 Energy Efficient Turbo	Enable/Disable Energy Efficient Turbo Feature. This feature will opportunistically lower the turbo frequency to increase efficiency. Recommended only to disable in overclocking situations where turbo frequency must remain constant. Otherwise, leave enabled.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.12.16 Platform Tuning for Reliability	Configure the Platform Turbo Ratio Tuning based on Embedded and Industrial Sku Use Case. If PTR is grayed out, No Tuning Required.	Possible Choices: • Default • Embedded UC Default Value: • Default
2.3.1.13 Config TDP Configurations		
2.3.1.13.1 Config TDP Configurations		
2.3.1.13.2 Enable Configurable TDP	Applies cTDP (Assured Power) initialization settings based on non-cTDP (Assured Power) or cTDP (Assured Power). Default is 1: Applies to cTDP (Assured Power); if 0 then applies non-cTDP (Assured Power) and BIOS will bypass cTDP (Assured Power) initialzation flow	Possible Choices: • Applies to non-cTDP • Applies to cTDP Default Value: • Applies to cTDP
2.3.1.13.3 Configurable TDP Boot Mode	cTDP (Assured Power) Mode as Nominal/Level1/Level2/Deactivate TDP (Base Power) selection. Deactivate option will set MSR	Possible Choices: • Nominal • Level1

	to Nominal and MMIO to Zero.	• Level2 • Deactivate Default Value: • Nominal
2.3.1.13.4 Configurable TDP Lock	cTDP (Assured Power) Mode Lock sets the Lock bits on TURBO_ACTIVATION_RATIO and CONFIG_TDP_CONTROL. Note: When CTDP (Assured Power) Lock is enabled Custom ConfigTDP Count will be forced to 1 and Custom ConfigTDP Boot Index will be forced to 0.	Possible Choices: • Enabled • Disabled Default Value: • Disabled
2.3.1.13.5 CTDP BIOS control	Enables cTDP (Assured Power) control via runtime ACPI BIOS methods. This 'BIOS only' feature does not require EC or driver support.	Possible Choices: • Enabled • Disabled Default Value: • Disabled
2.3.1.13.6 ConfigTDP Levels	cTDP (Assured Power) Levels Supported from MSR	
2.3.1.13.7 ConfigTDP Turbo Activation Ratio	cTDP (Assured Power) Turbo Activation Ratio values from MSR	
2.3.1.13.8 Power Limit 1	Power Limit 1 values from MMIO	
2.3.1.13.9 Power Limit 2	Power Limit 2 values from MMIO	
2.3.1.13.10 Custom Settings Nominal		
2.3.1.13.11 ConfigTDP Nominal	cTDP (Assured Power) Nominal Ratio and Processor Base Power (TDP) from MSR	
2.3.1.13.12 Power Limit 1	Power Limit 1 in Milli Watts. BIOS will round to the nearest 1/8W when programming. 0 = no custom override. For 12.50W, enter 12500. Overclocking SKU: Value must be between Max and Min Power Limits. Other SKUs: This value must be	Default Value: • 0 Numeric Range: Minimum Value: 0

	between Min Power Limit and Processor Base Power (TDP) Limit.	Maximum Value: 4095875
2.3.1.13.13 Power Limit 2	Power Limit 2 value in Milli Watts. BIOS will round to the nearest 1/8W when programming. 0 = no custom override. For 12.50W, enter 12500. Processor applies control policies such that the package power does not exceed this limit.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.13.14 Power Limit 1 Time Window	Power Limit 1 Time Window value in seconds. The value may vary from 0 to 128. 0 = default value (28 sec for Mobile and 8 sec for Desktop). Defines time window which Processor Base Power (TDP) value should be maintained.	Possible Choices: • 0 • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 10 • 12 • 14 • 16 • 20 • 24 • 28 • 32 • 40 • 48 • 56 • 64 • 80 • 96 • 112 • 128 Default Value: • 0
2.3.1.13.15 ConfigTDP Turbo Activation Ratio	Custom value for Turbo Activation Ratio. Needs to be configured with valid values from LFM to Max Turbo. 0 means don't use custom value.	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.13.16 Custom Settings Level1		
2.3.1.13.17 ConfigTDP Level1	cTDP (Assured Power) Level1 Ratio and Processor Base Power (TDP) from MSR	
2.3.1.13.18 Power Limit 1	Power Limit 1 in Milli Watts. BIOS will round to the nearest 1/8W when programming. 0 = no custom override. For 12.50W, enter 12500. Overclocking SKU: Value must be between Max and Min Power Limits. Other SKUs: This value must be between Min Power Limit and Processor Base Power (TDP) Limit.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.13.19 Power Limit 2	Power Limit 2 value in Milli Watts. BIOS will round to the nearest 1/8W when programming. 0 = no custom override. For 12.50W, enter 12500. Processor applies control policies such that the package power does not exceed this limit.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.13.20 Power Limit 1 Time Window	Power Limit 1 Time Window value in seconds. The value may vary from 0 to 128. 0 = default value (28 sec for Mobile and 8 sec for Desktop). Defines time window which Processor Base Power (TDP) value should be maintained.	Possible Choices: • 0 • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 10 • 12 • 14 • 16 • 20 • 24 • 28

		• 32 • 40 • 48 • 56 • 64 • 80 • 96 • 112 • 128 Default Value: • 0
2.3.1.13.21 ConfigTDP Turbo Activation Ratio	Custom value for Turbo Activation Ratio. Needs to be configured with valid values from LFM to Max Turbo. 0 means don't use custom value.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.13.22 Custom Settings Level2		
2.3.1.13.23 ConfigTDP Level2	cTDP (Assured Power) Level2 Ratio and Processor Base Power (TDP) from MSR	
2.3.1.13.24 Power Limit 1	Power Limit 1 in Milli Watts. BIOS will round to the nearest 1/8W when programming. 0 = no custom override. For 12.50W, enter 12500. Overclocking SKU: Value must be between Max and Min Power Limits. Other SKUs: This value must be between Min Power Limit and Processor Base Power (TDP) Limit.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.13.25 Power Limit 2	Power Limit 2 value in Milli Watts. BIOS will round to the nearest 1/8W when programming. 0 = no custom override. For 12.50W, enter 12500. Processor applies control policies such that the package power does not exceed this limit.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4095875

2.3.1.13.26 Power Limit 1 Time Window	Power Limit 1 Time Window value in seconds. The value may vary from 0 to 128. 0 = default value (28 sec for Mobile and 8 sec for Desktop). Defines time window which Processor Base Power (TDP) value should be maintained.	Possible Choices: • 0 • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 10 • 12 • 14 • 16 • 20 • 24 • 28 • 32 • 40 • 48 • 56 • 64 • 80 • 96 • 112 • 128 Default Value: • 0
2.3.1.13.27 ConfigTDP Turbo Activation Ratio	Custom value for Turbo Activation Ratio. Needs to be configured with valid values from LFM to Max Turbo. 0 means don't use custom value.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14 CPU VR Settings		
2.3.1.14.1 PSYS Slope	PSYS Slope defined in 1/100 increments. Range is 0-200. For a 1.25 slope, enter 125. 0 = AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 200
2.3.1.14.2 PSYS Offset	PSYS Offset defined in 1/1000 increments. Range is 0-128000. For an offset of 25.348, enter 25348.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 128000
2.3.1.14.3 PSYS Prefix	Sets the offset value as positive or negative.	Possible Choices: • + • - Default Value: • +
2.3.1.14.4 PSYS PMax Power	PSYS PMax power, defined in 1/8 Watt or Percent increments. For Watts, Range is 0-8191 (ex. for 125W, enter 1000). For ATX12VO Percent, Range is 0-1600 (ex. for 200%, enter 1600).Uses BIOS VR mailbox command 0xB.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 8191
2.3.1.14.5 Vsys/Psys Critical	Vsys/Psys Critical Enable or disable	Possible Choices: • Disabled • Psys Critical • Vsys Critical Default Value: • Disabled
2.3.1.14.6 Vsys/Psys Full Scale	Input Vsys/Psys Full Scale & Critical Threshold. Vsys/Psys Critical = (Critical Threshold/Full Scale). Vsys input is in mVolts. Psys input is in mW or in m% (for ATX12VO)	Default Value: • 200000 Numeric Range: Minimum Value: 0 Maximum Value: 255000

2.3.1.14.7 Vsys/Psys Critical Threshold	Input Vsys/Psys Full Scale & Critical Threshold. Vsys/Psys Critical = (Critical Threshold/Full Scale). Vsys input is in mVolts. Psys input is in mW or in m% (for ATX12VO)	Default Value: • 130000 Numeric Range: Minimum Value: 0 Maximum Value: 255000
2.3.1.14.8 Vsys/Psys Full Scale	Input Vsys/Psys Full Scale & Critical Threshold. Vsys/Psys Critical = (Critical Threshold/Full Scale). Vsys input is in mVolts. Psys input is in mW or in m% (for ATX12VO)	Default Value: • 24000 Numeric Range: Minimum Value: 0 Maximum Value: 255000
2.3.1.14.9 Vsys/Psys Critical Threshold	Input Vsys/Psys Full Scale & Critical Threshold. Vsys/Psys Critical = (Critical Threshold/Full Scale). Vsys input is in mVolts. Psys input is in mW or in m% (for ATX12VO)	Default Value: • 6000 Numeric Range: Minimum Value: 0 Maximum Value: 255000
2.3.1.14.10 Assertion Deglitch Mantissa	Assertion Deglitch Mantissa 0x4F[7-3]. Assertion Deglitch = 2Âµs * Mantissa * 2^(Exponent)	Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14.11 Assertion Deglitch Exponent	Assertion Deglitch Exponent 0x4F[3-0]. Assertion Deglitch = 2Âµs * Mantissa * 2^(Exponent)	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.3.1.14.12 De assertion Deglitch Mantissa	De Assertion Deglitch Mantissa 0x49[7-3]. Assertion Deglitch = 2Âµs * Mantissa * 2^(Exponent)	Default Value: • 13 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14.13 De assertion Deglitch Exponent	De Assertion Deglitch Exponent 0x49[3-0]. Assertion Deglitch = 2Âµs * Mantissa * 2^(Exponent)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14.14 SVID Stabilization Delay	Configure SVID Stabiliation Delay (in us) being used for the FVM feature when it is enabled. Note that this delay applies to all SVID domains equally (no unique values possible for IA/GT/SA).	Default Value: • 3 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14.15 Acoustic Noise Settings		
2.3.1.14.15.1 Acoustic Noise Mitigation	Enabling this option will help mitigate acoustic noise on certain SKUs when the CPU is in deeper C state	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.15.2 Pre Wake Time	Set the maximum Pre Wake randomization time in micro ticks. Range is 0-255. This is for acoustic noise mitigation Dynamic Perodicity Alteration (DPA) tuning.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.3.1.14.15.3 Ramp Up Time	Set the maximum Ramp Up randomization time in micro ticks. Range is 0-255. This is for acoustic noise mitigation Dynamic Perodicity Alteration (DPA) tuning.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14.15.4 Ramp Down Time	Set the maximum Ramp Down randomization time in micro ticks. Range is 0-255. This is for acoustic noise mitigation Dynamic Perodicity Alteration (DPA) tuning.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14.15.5 Core VR Domain		
2.3.1.14.15.6 Disable Fast PKG C State Ramp for Core Domain	This option needs to be configured to reduce acoustic noise during deeper C states. False: Don't disable Fast ramp during deeper C states; True: Disable Fast ramp during deeper C state	Possible Choices: • FALSE • TRUE Default Value: • FALSE
2.3.1.14.15.7 Slow Slew Rate for Core Domain	Set VR Core Slow Slew Rate for Deep Package C State ramp time; Slow slew rate equals to Fast divided by number, the number is 2, 4, 8, 16 to slow down the slew rate to help minimize acoustic noise	Possible Choices: • Fast/2 • Fast/4 • Fast/8 • Fast/16 Default Value: • Fast/2
2.3.1.14.15.8 GT VR Domain		
2.3.1.14.15.9 Disable Fast PKG C State Ramp for GT Domain	This option needs to be configured to reduce acoustic noise during deeper C states. False: Don't disable Fast ramp during deeper C states; True: Disable Fast ramp during deeper C state	Possible Choices: • FALSE • TRUE Default Value:

		• FALSE
2.3.1.14.15.10 Slow Slew Rate for GT Domain	Set VR GT Slow Slew Rate for Deep Package C State ramp time; Slow slew rate equals to Fast divided by number, the number is 2, 4, 8 to slow down the slew rate to help minimize acoustic noise; divide by 16 is disabled	Possible Choices: • Fast/2 • Fast/4 • Fast/8 Default Value: • Fast/2
2.3.1.14.15.11 SA VR Domain		
2.3.1.14.15.12 Disable Fast PKG C State Ramp for SA Domain	This option needs to be configured to reduce acoustic noise during deeper C states. False: Don't disable Fast ramp during deeper C states; True: Disable Fast ramp during deeper C state	Possible Choices: • FALSE • TRUE Default Value: • FALSE
2.3.1.14.16 Efficiency/Performance VR Settings		
2.3.1.14.16.1 Efficiency/Performance VR Domain		
2.3.1.14.16.2 VR Config Enable		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.16.3 Current AC Loadline		
2.3.1.14.16.4 Current DC Loadline		
2.3.1.14.16.5 Current Psi1 Threshold		
2.3.1.14.16.6 Current Psi2 Threshold		
2.3.1.14.16.7 Current Psi3 Threshold		
2.3.1.14.16.8 Current Imon Slope		
2.3.1.14.16.9 Current Imon Offset		

2.3.1.14.16.10 Current VR ICC MAX		
2.3.1.14.16.11 Current VR ICC Limit		
2.3.1.14.16.12 Current Tdc Current Limit		
2.3.1.14.16.13 Current Voltage Limit		
2.3.1.14.16.14 AC Loadline	AC Loadline defined in 1/100 mOhms. A value of 100 = 1.00 mOhm, and 1255 = 12.55 mOhm. Range is 0-6249 (0-62.49 mOhms). 0 = AUTO/HW default.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 62500
2.3.1.14.16.15 DC Loadline	DC Loadline defined in 1/100 mOhms. A value of 100 = 1.00 mOhm, and 1255 = 12.55 mOhm. Range is 0-6249 (0-62.49 mOhms). 0 = AUTO/HW default.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 62500
2.3.1.14.16.16 PS Current Threshold1	PS Current Threshold1, defined in 1/4 A increments. A value of 400 = 100A. Range 0-512, which translates to 0-128A. 0 = AUTO.	Default Value: • 80 Numeric Range: Minimum Value: 0 Maximum Value: 512
2.3.1.14.16.17 PS Current Threshold2	PS Current Threshold2, defined in 1/4 A increments. A value of 400 = 100A. Range 0-512, which translates to 0-128A. 0 = AUTO.	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 512
2.3.1.14.16.18 PS Current Threshold3	PS Current Threshold3, defined in 1/4 A increments. A value of	

	400 = 100A. Range 0-512, which translates to 0-128A. 0 = AUTO.	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 512
2.3.1.14.16.19 PS3 Enable	PS3 Enable/Disable. 0 - Disabled, 1 - Enabled.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.16.20 PS4 Enable	PS4 Enable/Disable. 0 - Disabled, 1 - Enabled.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.16.21 IMON Slope	IMON Slope defined in 1/100 increments. Range is 0-200. For a 1.25 slope, enter 125. 0 = AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 200
2.3.1.14.16.22 IMON Offset	IMON Offset defined in 1/1000 increments. Range is 0-128000. For an offset of 25.348, enter 25348.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 128000
2.3.1.14.16.23 IMON Prefix	Sets the offset value as positive or negative.	Possible Choices: • + • -

		Default Value: • +
2.3.1.14.16.24 VR Current Limit	Voltage Regulator Current Limit (Icc Max). This value represents the Maximum instantaneous current allowed at any given time. The value is represented in 1/4 A increments. A value of 400 = 100A. 0 means AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 2047
2.3.1.14.16.25 Core VR Fast Vmode	Core VR Fast Vmode. Use to control Core Fast Vmode Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.16.26 VR Fast Vmode ICC Limit	Voltage Regulator Fast Vmode ICC Limit. A value of 400 = 100A. This value represents the current threshold where the VR would initiate reactive protection if Fast Vmode is enabled. The value is represented in 1/4 A increments.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 2040
2.3.1.14.16.27 VR Fast Vmode Offset	Voltage Regulator Fast Vmode Offset. This value represents the ICC Max Offset(dV/dT) to be configured if Fast Vmode is enabled. IGNORED if Fast Vmode ICC LIMIT = 0. The value is represented in 1 mV increments. 0 = Use processor default setting. Highly recommend to keep at the default setting.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14.16.28 VR Voltage Limit	Voltage Limit (VMAX). This value represents the Maximum instantaneous voltage allowed at any given time. Range is 0 - 7999mV.	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 7999
2.3.1.14.16.29 TDC Enable	TDC Enable. 0- Disable, 1 - Enable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.16.30 TDC Current Limit	TDC Current Limit, defined in 1/8A increments. Range 0-32767. For a TDC Current Limit of 125A, enter 1000. 0 = AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 32767
2.3.1.14.16.31 TDC Time Window	VR TDC Time Window, value in seconds. Range from 1s to 448s. AUTO means using processor default setting.	Possible Choices: • Auto • 1 sec • 2 sec • 3 sec • 4 sec • 5 sec • 6 sec • 7 sec • 8 sec • 10 sec • 12 sec • 14 sec • 16 sec • 20 sec • 24 sec • 28 sec • 32 sec • 40 sec • 48 sec • 56 sec • 64 sec • 80 sec • 96 sec • 112 sec • 128 sec

		• 160 sec • 192 sec • 224 sec • 256 sec • 320 sec • 384 sec • 448 sec Default Value: • Auto
2.3.1.14.16.32 TDC Lock		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.16.33 IRMS	Enable/Disable IRMS - Current root mean square	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.16.34 PS1 to PS0 Dynamic Cutoff Enable	PS1 to PS0 Dynamic Cutoff Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.16.35 PS1 to PS0 Dynamic Cutoff M Coef	PS1 to PS0 Dynamic Cutoff M Coef, This number is in M*100 units. For 12.50, enter 1250, range:0-4096	Default Value: • 100 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.16.36 PS1 to PS0 Dynamic Cutoff C Coef	PS1 to PS0 Dynamic Cutoff C Coef, This number is in C*100 units. For 12.50. If your value	

	bigger than 2047, it will minus 4096. For -12.50, enter 2846, range:0-4096.	Default Value: • 2000 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.16.37 PS2 to PS1 Dynamic Cutoff Enable	PS2 to PS1 Dynamic Cutoff Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.16.38 PS2 to PS1 Dynamic Cutoff M Coef	PS2 to PS1 Dynamic Cutoff M Coef, This number is in M*100 units. For 12.50, enter 1250, range:0-4096	Default Value: • 100 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.16.39 PS2 to PS1 Dynamic Cutoff C Coef	PS2 to PS1 Dynamic Cutoff C Coef, This number is in C*100 units. For 12.50. If your value bigger than 2047, it will minus 4096. For -12.50, enter 2846, range:0-4096.	Default Value: • 500 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.16.40 VCC Demotion Shutdown Threshold	User configured time threshold in msec. Range is 0~255 msec.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14.16.41 CEP Enable	Enable/Disable CEP (Current Excursion Protection) Support.	Possible Choices: • Enabled • Disabled

		Default Value: • Enabled
2.3.1.14.16.42 SIRP Enable	Enable/Disable SIRP (SoC Iccmax Reactive Protection) Support.	Possible Choices: • Enabled • Disabled Default Value: • Disabled
2.3.1.14.17 GT VR Settings		
2.3.1.14.17.1 GT Domain		
2.3.1.14.17.2 VR Config Enable		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.17.3 Current AC Loadline		
2.3.1.14.17.4 Current DC Loadline		
2.3.1.14.17.5 Current Psi1 Threshold		
2.3.1.14.17.6 Current Psi2 Threshold		
2.3.1.14.17.7 Current Psi3 Threshold		
2.3.1.14.17.8 Current Imon Slope		
2.3.1.14.17.9 Current Imon Offset		
2.3.1.14.17.10 Current VR ICC MAX		
2.3.1.14.17.11 Current VR ICC Limit		
2.3.1.14.17.12 Current Tdc Current Limit		
2.3.1.14.17.13 Current Voltage Limit		
2.3.1.14.17.14 AC Loadline	AC Loadline defined in 1/100 mOhms. A value of 100 = 1.00 mOhm, and 1255 = 12.55 mOhm. Range is 0-6249 (0-62.49	Default Value:

	mOhms). 0 = AUTO/HW default.	• 0 Numeric Range: Minimum Value: 0 Maximum Value: 62500
2.3.1.14.17.15 DC Loadline	DC Loadline defined in 1/100 mOhms. A value of 100 = 1.00 mOhm, and 1255 = 12.55 mOhm. Range is 0-6249 (0-62.49 mOhms). 0 = AUTO/HW default.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 62500
2.3.1.14.17.16 PS Current Threshold1	PS Current Threshold1, defined in 1/4 A increments. A value of 400 = 100A. Range 0-512, which translates to 0-128A. 0 = AUTO.	Default Value: • 80 Numeric Range: Minimum Value: 0 Maximum Value: 512
2.3.1.14.17.17 PS Current Threshold2	PS Current Threshold2, defined in 1/4 A increments. A value of 400 = 100A. Range 0-512, which translates to 0-128A. 0 = AUTO.	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 512
2.3.1.14.17.18 PS Current Threshold3	PS Current Threshold3, defined in 1/4 A increments. A value of 400 = 100A. Range 0-512, which translates to 0-128A. 0 = AUTO.	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 512
2.3.1.14.17.19 PS3 Enable	PS3 Enable/Disable. 0 - Disabled, 1 - Enabled.	Possible Choices: • Disabled

		• Enabled Default Value: • Enabled
2.3.1.14.17.20 PS4 Enable	PS4 Enable/Disable. 0 - Disabled, 1 - Enabled.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.17.21 IMON Slope	IMON Slope defined in 1/100 increments. Range is 0-200. For a 1.25 slope, enter 125. 0 = AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 200
2.3.1.14.17.22 IMON Offset	IMON Offset defined in 1/1000 increments. Range is 0-128000. For an offset of 25.348, enter 25348.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 128000
2.3.1.14.17.23 IMON Prefix	Sets the offset value as positive or negative.	Possible Choices: • + • - Default Value: • +
2.3.1.14.17.24 VR Current Limit	Voltage Regulator Current Limit (Icc Max). This value represents the Maximum instantaneous current allowed at any given time. The value is represented in 1/4 A increments. A value of 400 = 100A. 0 means AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 2047
2.3.1.14.17.25 GT VR Fast Vmode	GT VR Fast Vmode. Use to control GT Fast Vmode Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.17.26 VR Fast Vmode ICC Limit	Voltage Regulator Fast Vmode ICC Limit. A value of 400 = 100A. This value represents the current threshold where the VR would initiate reactive protection if Fast Vmode is enabled. The value is represented in 1/4 A increments.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 2040
2.3.1.14.17.27 VR Fast Vmode Offset	Voltage Regulator Fast Vmode Offset. This value represents the ICC Max Offset(dV/dT) to be configured if Fast Vmode is enabled. IGNORED if Fast Vmode ICC LIMIT = 0. The value is represented in 1 mV increments. 0 = Use processor default setting. Highly recommend to keep at the default setting.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.3.1.14.17.28 VR Voltage Limit	Voltage Limit (VMAX). This value represents the Maximum instantaneous voltage allowed at any given time. Range is 0 - 7999mV.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7999
2.3.1.14.17.29 TDC Enable	TDC Enable. 0- Disable, 1 - Enable	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.3.1.14.17.30 TDC Current Limit	TDC Current Limit, defined in 1/8A increments. Range 0-32767. For a TDC Current Limit of 125A, enter 1000. 0 = AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 32767
2.3.1.14.17.31 TDC Time Window	VR TDC Time Window, value in seconds. Range from 1s to 448s. AUTO means using processor default setting.	Possible Choices: • Auto • 1 sec • 2 sec • 3 sec • 4 sec • 5 sec • 6 sec • 7 sec • 8 sec • 10 sec • 12 sec • 14 sec • 16 sec • 20 sec • 24 sec • 28 sec • 32 sec • 40 sec • 48 sec • 56 sec • 64 sec • 80 sec • 96 sec • 112 sec • 128 sec • 160 sec • 192 sec • 224 sec • 256 sec • 320 sec • 384 sec • 448 sec Default Value: • Auto

2.3.1.14.17.32 TDC Lock		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.17.33 IRMS	Enable/Disable IRMS - Current root mean square	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.17.34 PS1 to PS0 Dynamic Cutoff Enable	PS1 to PS0 Dynamic Cutoff Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.17.35 PS1 to PS0 Dynamic Cutoff M Coef	PS1 to PS0 Dynamic Cutoff M Coef, This number is in M*100 units. For 12.50, enter 1250, range:0-4096	Default Value: • 100 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.17.36 PS1 to PS0 Dynamic Cutoff C Coef	PS1 to PS0 Dynamic Cutoff C Coef, This number is in C*100 units. For 12.50. If your value bigger than 2047, it will minus 4096. For -12.50, enter 2846, range:0-4096.	Default Value: • 2000 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.17.37 PS2 to PS1 Dynamic Cutoff Enable	PS2 to PS1 Dynamic Cutoff Enable/Disable	Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.3.1.14.17.38 PS2 to PS1 Dynamic Cutoff M Coef	PS2 to PS1 Dynamic Cutoff M Coef, This number is in M*100 units. For 12.50, enter 1250, range:0-4096	Default Value: • 100 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.17.39 PS2 to PS1 Dynamic Cutoff C Coef	PS2 to PS1 Dynamic Cutoff C Coef, This number is in C*100 units. For 12.50. If your value bigger than 2047, it will minus 4096. For -12.50, enter 2846, range:0-4096.	Default Value: • 500 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.17.40 CEP Enable	Enable/Disable CEP (Current Excursion Protection) Support.	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.3.1.14.18 SA VR Settings		
2.3.1.14.18.1 SA Domain		
2.3.1.14.18.2 VR Config Enable		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.18.3 Current AC Loadline		
2.3.1.14.18.4 Current DC Loadline		

2.3.1.14.18.5 Current Psi1 Threshold		
2.3.1.14.18.6 Current Psi2 Threshold		
2.3.1.14.18.7 Current Psi3 Threshold		
2.3.1.14.18.8 Current Imon Slope		
2.3.1.14.18.9 Current Imon Offset		
2.3.1.14.18.10 Current VR ICC MAX		
2.3.1.14.18.11 Current VR ICC Limit		
2.3.1.14.18.12 Current Tdc Current Limit		
2.3.1.14.18.13 Current Voltage Limit		
2.3.1.14.18.14 AC Loadline	AC Loadline defined in 1/100 mOhms. A value of 100 = 1.00 mOhm, and 1255 = 12.55 mOhm. Range is 0-6249 (0-62.49 mOhms). 0 = AUTO/HW default.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 62500
2.3.1.14.18.15 DC Loadline	DC Loadline defined in 1/100 mOhms. A value of 100 = 1.00 mOhm, and 1255 = 12.55 mOhm. Range is 0-6249 (0-62.49 mOhms). 0 = AUTO/HW default.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 62500
2.3.1.14.18.16 PS Current Threshold1	PS Current Threshold1, defined in 1/4 A increments. A value of 400 = 100A. Range 0-512, which translates to 0-128A. 0 = AUTO.	Default Value: • 80 Numeric Range: Minimum Value: 0 Maximum Value: 512
2.3.1.14.18.17 PS Current Threshold2	PS Current Threshold2, defined in 1/4 A increments. A value of 400 = 100A. Range 0-512, which	

	translates to 0-128A. 0 = AUTO.	Default Value: • 40 Numeric Range: Minimum Value: 0 Maximum Value: 512
2.3.1.14.18.18 PS Current Threshold3	PS Current Threshold3, defined in 1/4 A increments. A value of 400 = 100A. Range 0-512, which translates to 0-128A. 0 = AUTO.	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 512
2.3.1.14.18.19 PS3 Enable	PS3 Enable/Disable. 0 - Disabled, 1 - Enabled.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.18.20 PS4 Enable	PS4 Enable/Disable. 0 - Disabled, 1 - Enabled.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.18.21 IMON Slope	IMON Slope defined in 1/100 increments. Range is 0-200. For a 1.25 slope, enter 125. 0 = AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 200
2.3.1.14.18.22 IMON Offset	IMON Offset defined in 1/1000 increments. Range is 0-128000. For an offset of 25.348, enter 25348.	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 128000
2.3.1.14.18.23 IMON Prefix	Sets the offset value as positive or negative.	Possible Choices: • + • - Default Value: • +
2.3.1.14.18.24 VR Current Limit	Voltage Regulator Current Limit (Icc Max). This value represents the Maximum instantaneous current allowed at any given time. The value is represented in 1/4 A increments. A value of 400 = 100A. 0 means AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.3.1.14.18.25 SA VR Fast Vmode	SA VR Fast Vmode. Use to control SA Fast Vmode Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.18.26 VR Fast Vmode ICC Limit	Voltage Regulator Fast Vmode ICC Limit. A value of 400 = 100A. This value represents the current threshold where the VR would initiate reactive protection if Fast Vmode is enabled. The value is represented in 1/4 A increments.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 2040
2.3.1.14.18.27 VR Fast Vmode Offset	Voltage Regulator Fast Vmode Offset. This value represents the ICC Max Offset(dV/dT) to be configured if Fast Vmode is enabled. IGNORED if Fast Vmode ICC LIMIT = 0. The value is represented in 1 mV increments. 0 = Use processor	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

	default setting. Highly recommend to keep at the default setting.	
2.3.1.14.18.28 VR Voltage Limit	Voltage Limit (VMAX). This value represents the Maximum instantaneous voltage allowed at any given time. Range is 0 - 7999mV.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7999
2.3.1.14.18.29 TDC Enable	TDC Enable. 0- Disable, 1 - Enable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.18.30 TDC Current Limit	TDC Current Limit, defined in 1/8A increments. Range 0-32767. For a TDC Current Limit of 125A, enter 1000. 0 = AUTO.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 32767
2.3.1.14.18.31 TDC Time Window	VR TDC Time Window, value in seconds. Range from 1s to 448s. AUTO means using processor default setting.	Possible Choices: • Auto • 1 sec • 2 sec • 3 sec • 4 sec • 5 sec • 6 sec • 7 sec • 8 sec • 10 sec • 12 sec • 14 sec • 16 sec • 20 sec • 24 sec • 28 sec

		• 32 sec • 40 sec • 48 sec • 56 sec • 64 sec • 80 sec • 96 sec • 112 sec • 128 sec • 160 sec • 192 sec • 224 sec • 256 sec • 320 sec • 384 sec • 448 sec Default Value: • Auto
2.3.1.14.18.32 TDC Lock		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.18.33 IRMS	Enable/Disable IRMS - Current root mean square	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.18.34 PS1 to PS0 Dynamic Cutoff Enable	PS1 to PS0 Dynamic Cutoff Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.18.35 PS1 to PS0 Dynamic Cutoff M Coef	PS1 to PS0 Dynamic Cutoff M Coef, This number is in M*100 units. For 12.50, enter 1250, range:0-4096	Default Value: • 100

		Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.18.36 PS1 to PS0 Dynamic Cutoff C Coef	PS1 to PS0 Dynamic Cutoff C Coef, This number is in C*100 units. For 12.50. If your value bigger than 2047, it will minus 4096. For -12.50, enter 2846, range:0-4096.	Default Value: • 2000 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.18.37 PS2 to PS1 Dynamic Cutoff Enable	PS2 to PS1 Dynamic Cutoff Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.14.18.38 PS2 to PS1 Dynamic Cutoff M Coef	PS2 to PS1 Dynamic Cutoff M Coef, This number is in M*100 units. For 12.50, enter 1250, range:0-4096	Default Value: • 100 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.18.39 PS2 to PS1 Dynamic Cutoff C Coef	PS2 to PS1 Dynamic Cutoff C Coef, This number is in C*100 units. For 12.50. If your value bigger than 2047, it will minus 4096. For -12.50, enter 2846, range:0-4096.	Default Value: • 500 Numeric Range: Minimum Value: 0 Maximum Value: 4096
2.3.1.14.18.40 CEP Enable	Enable/Disable CEP (Current Excursion Protection) Support.	Possible Choices: • Enabled • Disabled

		Default Value: • Enabled
2.3.1.14.19 RFI Settings		
2.3.1.14.19.1 RFI Domain		
2.3.1.14.19.2 Global DLVR RFI Mitigation Control	Enable/Disable Global DLVR RFI Mitigation Control	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.14.19.3 DLVR SSC Value	DLVR SSC in percentage with multiple of 0.25%. 0 = 0%, 31 = 7.75%.	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.3.1.14.19.4 DLVR RFI Frequency	DLVR RFI Frequency in MHz.	Default Value: • 1370 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.3.1.15 Platform PL1 Enable	Enable/Disable Platform Power Limit 1 programming. If this option is enabled, it activates the PL1 value to be used by the processor to limit the average power of given time window.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.16 Platform PL1 Power	Platform Power Limit 1 Power in Milli Watts/Percent. BIOS will round to the nearest 1/8W when programming. Any value can be programmed between Max and Min Power Limits (specified	Default Value: • 0

	by PACKAGE_POWER_SKU_MSR). For example, if 12.50W, enter 12500, if 12%, enter 12000, if 50%, enter 50000. This setting will act as the new PL1 value for the Package RAPL algorithm.	Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.17 Platform PL1 Time Window	Platform Power Limit 1 Time Window value in seconds. The value may vary from 0 to 128. 0 = default values. Indicates the time window over which Platform Processor Base Power (TDP) value should be maintained.	Possible Choices: • 0 • 1 • 2 • 3 • 4 • 5 • 6 • 7 • 8 • 10 • 12 • 14 • 16 • 20 • 24 • 28 • 32 • 40 • 48 • 56 • 64 • 80 • 96 • 112 • 128 Default Value: • 0
2.3.1.18 Platform PL2 Enable	Enable/Disable Platform Power Limit 2 programming. If this option is disabled, BIOS will program the default values for Platform Power Limit 2.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.19 Platform PL2 Power	Platform Power Limit 2 Power in Milli Watts/Percent. BIOS will round to the nearest 1/8W when	

	programming. Any value can be programmed between Max and Min Power Limits (specified by PACKAGE_POWER_SKU_MSR). For example, if 12.50W, enter 12500, if 12%, enter 12000, if 50%, enter 50000. This setting will act as the new Max Turbo Power (PL2) value for the Package RAPL algorithm.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.20 Power Limit 4 Override	Enable/Disable Power Limit 4 override. If this option is disabled, BIOS will leave the default values for Power Limit 4.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.21 Power Limit 4	Power Limit 4 in Milli Watts. BIOS will round to the nearest 1/8W when programming. For 12.50W, enter 12500. If the value is 0, BIOS leaves default value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.22 Power Limit 4 Lock	Power Limit 4 Lock. When enabled PL4 configurations are locked during OS. When disabled PL4 configuration can be changed during OS.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.23 Current Power Limit 4 Boost		
2.3.1.24 Power Limit 4 Boost	Configure Power Limit 4 Boost in Watts. The value 0 means disable.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1023

2.3.1.25 Enhanced C-states	Enable/Disable C1E. When enabled, CPU will switch to minimum speed when all cores enter C-State.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.26 C states	Enable/Disable CPU Power Management. Allows CPU to go to C states when it's not 100% utilized.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.27 C-State Auto Demotion	Configure C-State Auto Demotion	Possible Choices: • Disabled • C1 Default Value: • C1
2.3.1.28 C-State Un-demotion	Configure C-State Un-demotion	Possible Choices: • Disabled • C1 Default Value: • C1
2.3.1.29 Package C-State Demotion		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.30 Package C-State Un-demotion		Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.3.1.31 CState Pre-Wake	Disable - to 1 to disable the Cstate Pre-Wake	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.32 IO MWAIT Redirection	When set, will map IO_read instructions sent to IO registers PMG_IO_BASE_ADDRBASE+offset to MWAIT(offset)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.33 Package C State Limit	Maximum Package C State Limit Setting. Cpu Default: Leaves to Factory default value.Auto: Initializes to deepest available Package C State Limit.	Possible Choices: • C0/C1 • C2 • C3 • C6 • C7 • C7S • C8 • C9 • C10 • Cpu Default • Auto Default Value: • Auto
2.3.1.34 N/A		
2.3.1.35 DC6 Latency WA		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.36 Thermal Monitor	Enable/Disable Thermal	

	Monitor	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.37 Interrupt Redirection Mode Selection	Interrupt Redirection Mode Select for Logical Interrupts	Possible Choices: • Fixed Priority • Round robin • Hash Vector • No Change Default Value: • Fixed Priority
2.3.1.38 Timed MWAIT	Enable/Disable Timed MWAIT Support	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.39 Custom P-state Table		
2.3.1.39.1 Number of P states	Sets the number of custom P-states. At least 2 states must be present.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 40
2.3.1.39.2 Max P-State Ratio	Maximum P-state ratio to use in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.3 P-State Ratio	P-state ratio for the given state	

	in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.4 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.5 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.6 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.7 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.8 P-State Ratio	P-state ratio for the given state	

	in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.9 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.10 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.11 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.12 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.13 P-State Ratio	P-state ratio for the given state	

	in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.14 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.15 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.16 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.17 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.18 P-State Ratio	P-state ratio for the given state	

	in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.19 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.20 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.21 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.22 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.23 P-State Ratio	P-state ratio for the given state	

	in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.24 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.25 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.26 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.27 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.28 P-State Ratio	P-state ratio for the given state	

	in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.29 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.30 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.31 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.32 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.33 P-State Ratio	P-state ratio for the given state	

	in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.34 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.35 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.36 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.37 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.38 P-State Ratio	P-state ratio for the given state	

	in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.39 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.40 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.41 P-State Ratio	P-state ratio for the given state in the custom P-state table.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.42 Max 16 custom P-state Table		
2.3.1.39.43 Max P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127

2.3.1.39.44 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.45 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.46 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.47 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.48 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127

2.3.1.39.49 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.50 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.51 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.52 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.53 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127

2.3.1.39.54 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.55 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.56 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.57 P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.3.1.39.58 Min P-State Ratio (Max 16 table)	P-state ratio for the given state in the Max 16 P-state table. Used if OS only supports 16 P-states	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127

2.3.1.40 EC Turbo Control Mode	Enable/Disable EC Turbo Control mode	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.41 AC Brick Capacity	Specify the AC Brick capacity	Possible Choices: • 90W AC Brick • 65W AC Brick • 75W AC Brick Default Value: • 90W AC Brick
2.3.1.42 EC Polling Period	Count 1 to 255 for a range of 10ms to 2.55 seconds (1 count = 10ms)	Default Value: • 1 Numeric Range: Minimum Value: 1 Maximum Value: 255
2.3.1.43 EC Guard Band Value	Count 1 to 20 for a range of 1 watt to 20 watts	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 20
2.3.1.44 EC Algorithm Selection	Count 1 to 10 for Algorithm Selection	Default Value: • 1 Numeric Range: Minimum Value: 1 Maximum Value: 10

2.3.1.45 Energy Performance Gain	Enable/disable Energy Performance Gain.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.46 EPG DIMM Idd3N	Active standby current (Idd3N) in milliamps from datasheet. Must be calculated on a per DIMM basis.	Default Value: • 26 Numeric Range: Minimum Value: 0 Maximum Value: 2000
2.3.1.47 EPG DIMM Idd3P	Active power-down current (Idd3P) in milliamps from datasheet. Must be calculated on a per DIMM basis.	Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 2000
2.3.1.48 CCF AutoGV	Enable/disable CCF AutoGV.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.49 Power Floor Management	This option is to disable SoC's aggressive throttling to manage floor power (minimum power consumption). Disabling this might effectively raise power floor of the SoC and may lead to stability issues.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.50 Display Disconnect	When this option is enabled, SoC can disconnect secondary/external display to lower SoC floor power. When	Possible Choices: • Disabled

	disabled, display disconnect will not be used by SoC.	• Enabled Default Value: • Enabled
2.3.1.51 PCIe Gen Speed Downgrade	When this option is enabled, SoC can reduce PCIe Gen speed to lower SoC floor power. When disabled, Pcie Gen speed reduction option will not be used by SoC.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.52 Power Limit 3 Settings		
2.3.1.52.1 Power Limit 3 Override	Enable/DisablePower Limit 3 override. If this option is disabled, BIOS will leave the hardware default values for Power Limit 3 and Power Limit 3 Time Window.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.52.2 Power Limit 3	Power Limit 3 in Milli Watts/Percent. BIOS will round to the nearest 1/8W when programming. For example, if 12.50W, enter 12500, if 12%, enter 12000, if 50%, enter 50000. XE SKU: Any value can be programmed. Overclocking SKU: Value must be between Max and Min Power Limits (specified by PACKAGE_POWER_SKU_MSR). Other SKUs: This value must be between Min Power Limit and Processor Base Power (TDP) Limit. If the value is 0, BIOS leaves the hardware default value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 4095875
2.3.1.52.3 Power Limit 3 Time Window	Power Limit 3 Time Window value in Milli seconds. The value may vary from 3 to 64(max).Indicates the time window over which Power Limit 3 value should be maintained. If	Possible Choices: • 0 • 3 • 4 • 5

	the value is 0, BIOS leaves the hardware default value	• 6 • 7 • 8 • 10 • 12 • 14 • 16 • 20 • 24 • 28 • 32 • 40 • 48 • 56 • 64 Default Value: • 0
2.3.1.52.4 Power Limit 3 Duty Cycle	Specify the duty cycle in percentage that the CPU is required to maintain over the configured time window. Range is 0-100.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.3.1.52.5 Response Mode	Use Response Mode to adjust Psys_PL3 power reduction behavior. Battery-enabled systems use Gradual Power Reduction.	Possible Choices: • Gradual Power Reduction • Aggressive Power Reduction Default Value: • Gradual Power Reduction
2.3.1.52.6 Power Limit 3 Lock	Power Limit 3 Lock. When enabled PL3 configurations are locked during OS. When disabled PL3 configuration can be changed during OS.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.1.53 View/Configure CPU Lock Options		

2.3.1.53.1 CFG Lock	Configure MSR to CFG Lock bit	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.1.54 Dual Tau Boost	Enable Dual Tau Boost feature. This is only applicable for Desktop 35W/65W/125W sku. When DPTF is enabled this feature is ignored.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.3.2 GT/Media - Power Management Control		
2.3.2.1 RC6(Render Standby)	Check to enable render standby support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.2.2 MC6(Media Standby)	Check to enable Media standby support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.2.3 Maximum GT frequency	Auto Updated	Possible Choices: • Default Max Frequency • 100Mhz • 150Mhz • 200Mhz • 250Mhz • 300Mhz • 350Mhz • 400Mhz • 450Mhz • 500Mhz

		• 550Mhz • 600Mhz • 650Mhz • 700Mhz • 750Mhz • 800Mhz • 850Mhz • 900Mhz • 950Mhz • 1000Mhz • 1050Mhz • 1100Mhz • 1150Mhz • 1200Mhz Default Value: • Default Max Frequency
2.3.2.4 Disable Turbo GT frequency	Enabled: Disables Turbo GT frequency. Disabled: GT frequency is not limited	Possible Choices: • Enabled • Disabled Default Value: • Disabled
2.3.3 Overclocking Lock	Enable/Disable Overclocking Lock.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.3.4 Intel(R) Speed Shift Technology Interrupt Control	Enable/Disable Intel(R) Speed Shift Technology Interrupts	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4 System Agent (SA) Configuration		
2.4.1 Memory Configuration		
2.4.1.1 Memory RC Version		

2.4.1.2 Memory Frequency	Displays the Frequency of Memory	
2.4.1.3 tCL-tRCD-tRP-tRAS	Memory Timings	
2.4.1.4 MC 0 Ch 0 DIMM 0	Controller Channel Slot Subtitle	
2.4.1.5 Size	Memory Size in the Slot.	
2.4.1.6 Number of Ranks	Number of Ranks in the slot	
2.4.1.7 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.8 MC 0 Ch 0 DIMM 1	Controller Channel Slot Subtitle	
2.4.1.9 Size	Memory Size in the Slot.	
2.4.1.10 Number of Ranks	Number of Ranks in the slot	
2.4.1.11 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.12 MC 0 Ch 1 DIMM 0	Controller Channel Slot Subtitle	
2.4.1.13 Size	Memory Size in the Slot.	
2.4.1.14 Number of Ranks	Number of Ranks in the slot	
2.4.1.15 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.16 MC 0 Ch 1 DIMM 1	Controller Channel Slot Subtitle	
2.4.1.17 Size	Memory Size in the Slot.	
2.4.1.18 Number of Ranks	Number of Ranks in the slot	
2.4.1.19 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.20 MC 0 Ch 2 DIMM 0	Controller Channel Slot Subtitle	
2.4.1.21 Size	Memory Size in the Slot.	
2.4.1.22 Number of Ranks	Number of Ranks in the slot	
2.4.1.23 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.24 MC 0 Ch 2 DIMM 1	Controller Channel Slot Subtitle	
2.4.1.25 Size	Memory Size in the Slot.	

2.4.1.26 Number of Ranks	Number of Ranks in the slot	
2.4.1.27 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.28 MC 0 Ch 3 DIMM 0	Controller Channel Slot Subtitle	
2.4.1.29 Size	Memory Size in the Slot.	
2.4.1.30 Number of Ranks	Number of Ranks in the slot	
2.4.1.31 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.32 MC 0 Ch 3 DIMM 1	Controller Channel Slot Subtitle	
2.4.1.33 Size	Memory Size in the Slot.	
2.4.1.34 Number of Ranks	Number of Ranks in the slot	
2.4.1.35 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.36 MC 1 Ch 0 DIMM 0	Controller Channel Slot Subtitle	
2.4.1.37 Size	Memory Size in the Slot.	
2.4.1.38 Number of Ranks	Number of Ranks in the slot	
2.4.1.39 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.40 MC 1 Ch 0 DIMM 1	Controller Channel Slot Subtitle	
2.4.1.41 Size	Memory Size in the Slot.	
2.4.1.42 Number of Ranks	Number of Ranks in the slot	
2.4.1.43 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.44 MC 1 Ch 1 DIMM 0	Controller Channel Slot Subtitle	
2.4.1.45 Size	Memory Size in the Slot.	
2.4.1.46 Number of Ranks	Number of Ranks in the slot	
2.4.1.47 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.48 MC 1 Ch 1 DIMM 1	Controller Channel Slot Subtitle	
2.4.1.49 Size	Memory Size in the Slot.	

2.4.1.50 Number of Ranks	Number of Ranks in the slot	
2.4.1.51 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.52 MC 1 Ch 2 DIMM 0	Controller Channel Slot Subtitle	
2.4.1.53 Size	Memory Size in the Slot.	
2.4.1.54 Number of Ranks	Number of Ranks in the slot	
2.4.1.55 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.56 MC 1 Ch 2 DIMM 1	Controller Channel Slot Subtitle	
2.4.1.57 Size	Memory Size in the Slot.	
2.4.1.58 Number of Ranks	Number of Ranks in the slot	
2.4.1.59 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.60 MC 1 Ch 3 DIMM 0	Controller Channel Slot Subtitle	
2.4.1.61 Size	Memory Size in the Slot.	
2.4.1.62 Number of Ranks	Number of Ranks in the slot	
2.4.1.63 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.64 MC 1 Ch 3 DIMM 1	Controller Channel Slot Subtitle	
2.4.1.65 Size	Memory Size in the Slot.	
2.4.1.66 Number of Ranks	Number of Ranks in the slot	
2.4.1.67 Manufacturer	DIMM / DRAM Manufacturer Value	
2.4.1.68 In-Band ECC Support	Enable/Disable In-Band ECC. Will be enabled if memory has symmetric configuration.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.2 Graphics Configuration		
2.4.2.1 Skip Scaning of External Gfx Card	If Enable, it will not scan for External Gfx Card on PCIE Ports	

		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.2.2 Primary Display	Select AUTO set IGD to be Primary Display if no external Graphics Device connected otherwise external Graphics Device detected on first PCIe port will be Primary Display or Select IGFX for IGD to be Primary Display Or Select HG for Hybrid Gfx.	Possible Choices: • Auto • IGFX • HG Default Value: • Auto
2.4.2.3 Internal Graphics	Keep IGFX enabled based on the setup options.	Possible Choices: • Auto • Disabled • Enabled Default Value: • Auto
2.4.2.4 DVMT Pre-Allocated	Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Internal Graphics Device.	Possible Choices: • 0M • 32M • 64M • 96M • 128M • 4M • 8M • 12M • 16M • 20M • 24M • 28M • 32M/F7 • 36M • 40M • 44M • 48M • 52M • 56M • 60M Default Value:

		• 128M
2.4.2.5 Igfx Gsm2	Graphics Stolen Memory 2	Possible Choices: • 0GB • 2GB • 4GB • 6GB • 8GB • 10GB • 12GB • 14GB • 16GB • 18GB • 20GB • 22GB • 24GB • 26GB • 28GB • 30GB • 32GB Default Value: • 0GB
2.4.2.6 Intel Graphics Pei Display Peim	Enable/Disable Pei (Early) Display	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.2.7 ALS Support	Valid only for ACPI. Legacy = ALS Support through the IGFX INT10 function. ACPI = ALS support through an ACPI ALS driver.	Possible Choices: • Enabled • Disabled Default Value: • Disabled
2.4.2.8 VDD Enable	Enable/Disable forcing of VDD in the BIOS	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.4.2.9 Configure GT for use	Enable/Disable GT configuration in BIOS	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.2.10 Configure Media for use	Enable/Disable Media configuration in BIOS	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.2.11 GT RC1p Support	Enable/Disable RC1p support. If GT RC1p is enabled, send a RC1p frequency request to PMA if other conditions being met	Possible Choices: • Enabled • Disabled Default Value: • Disabled
2.4.2.12 Media RC1p Support	Enable/Disable RC1p support. If Media RC1p is enabled, send a RC1p frequency request to PMA if other conditions being met	Possible Choices: • Enabled • Disabled Default Value: • Disabled
2.4.2.13 PAVP Enable	Enable/Disable PAVP	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.2.14 V-by-One(iTE6807) Enable	Enable/Disable V-by-One(iTE6807)	Possible Choices: • Enabled • Disabled

		Default Value: • Disabled
2.4.2.15 Bypass VBT Update	Enable/Disable bypass VBT update	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.2.16 IUER Button Enable	Enable/Disable IUER Button Functionality	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.2.17 Intel(R) Ultrabook Event Support		
2.4.2.17.1 IUER Slate Enable	Enable/Disable IUER Slate Functionality	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.2.17.2 Slate Mode boot value	Choose Slate or Laptop as boot mode.	Possible Choices: • Slate Mode • Laptop Mode Default Value: • Laptop Mode
2.4.2.17.3 Slate Mode on S3 and S4 resume	Keep it the same as Sx entry or toggle it.	Possible Choices: • No change • Toggle Default Value: • No change
2.4.2.17.4 IUER Dock Enable	Enable/Disable IUER Dock	

	Functionality	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.2.17.5 Dock Mode boot value	Choose Docked or Undocked as boot mode.	Possible Choices: • Undocked • Docked Default Value: • Undocked
2.4.2.17.6 Dock Mode upon S3 and S4 resume	Keep it the same as Sx entry or toggle it.	Possible Choices: • No change • Toggle Default Value: • No change
2.4.3 TCSS setup menu		
2.4.3.1 TCSS Configuration		
2.4.3.2 IOM FW version: N/A		
2.4.3.3 PHY FW version: N/A		
2.4.3.4 TBT IMR Status: N/A		
2.4.3.5 TBT FW version: N/A		
2.4.3.6 Tc CState deepest stage: N/A		
2.4.3.7 TCSS xHCI Support	Enable/Disable TCSS xHCI	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.8 SA TCSS USB Configuration		
2.4.3.8.1 USB CONNECT OVERRIDE	Option will allow VCCSTTPC to turn off even when there is a connection for a USB3 port.	Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.4.3.8.2 TCSS xDCI Support	Enable/Disable TCSS xDCI	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.3.8.3 TCSS CPU USB PDO Programming	Select 'Enabled' if Port Disable Override functionality is used.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.8.4 TCSS CPU USB Port Disable Override	Selectively Enable/Disable the corresponding USB port from reporting a Device Connection to the controller.	Possible Choices: • Disabled • Select Per-Pin Default Value: • Disabled
2.4.3.8.5 TCSS CPU USB SS Physical Connector #0	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.8.6 TCSS CPU USB SS Physical Connector #1	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.4.3.8.7 TCSS CPU USB SS Physical Connector #2	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.8.8 TCSS CPU USB SS Physical Connector #3	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.9 ITBT PCIE0 Root Port	Enable/Disable ITBT PCIE ROOT	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.10 ITBT PCIE1 Root Port	Enable/Disable ITBT PCIE ROOT	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.11 ITBT PCIE2 Root Port	Enable/Disable ITBT PCIE ROOT	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.12 ITBT PCIE3 Root Port	Enable/Disable ITBT PCIE ROOT	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.4.3.13 ITBT DMA0	Enable/Disable ITBT DMA0	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.14 ITBT DMA1	Enable/Disable ITBT DMA1	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.15 VCCST status of IOM	Enables/Disables VCCST. Enable: Sends VCCST ON message to EC or PMC Disable: Sends VCCST OFF message to EC or PMC	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.16 D3 Cold Enable/Disable	Enables/Disables D3 Cold. Enable: D3 cold support for IOM is enabled Disable: D3 cold support for IOM is Disabled	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.17 D3Hot	Enables/Disables D3 Hot. Enable: D3 Hot support for IOM is enabled Disable: D3 Hot support for IOM is Disabled	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.18 Tc C-State Limit	BIOS mailbox to limit deepest TCx state	Possible Choices: • Disable • 1

		• 2 • 4 • 5 • 6 • 7 • 10 Default Value: • 10
2.4.3.19 PCI Express Root Port 0		
2.4.3.19.1 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.3.19.2 SA PCIe LTR Configuration		
2.4.3.19.3 LTR	PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.19.4 Snoop Latency Override	Snoop Latency Override for SA PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.19.5 Snoop Latency Value	LTR Snoop Latency value of SA PCIE	Default Value: • 200 Numeric Range: Minimum Value: 0 Maximum Value: 1023

2.4.3.19.6 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of SA PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.4.3.19.7 Non Snoop Latency Override	Non Snoop Latency Override for SA PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.19.8 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 200 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.4.3.19.9 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of SA PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.4.3.19.10 Force LTR Override	Force LTR Override for ITBT PCIE. Disabled: LTR override values will not be forced. Enable: LTR override values will be forced and LTR messages	Possible Choices: • Disabled • Enabled Default Value:

	from the device will be ignored.	• Disabled
2.4.3.19.11 LTR Lock	PCIE LTR Configuration Lock	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.3.20 PCI Express Root Port 1		
2.4.3.20.1 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.3.20.2 SA PCIe LTR Configuration		
2.4.3.20.3 LTR	PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.20.4 Snoop Latency Override	Snoop Latency Override for SA PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.20.5 Snoop Latency Value	LTR Snoop Latency value of SA PCIE	Default Value: • 200 Numeric Range: Minimum Value: 0 Maximum Value: 1023

2.4.3.20.6 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of SA PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.4.3.20.7 Non Snoop Latency Override	Non Snoop Latency Override for SA PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.20.8 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 200 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.4.3.20.9 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of SA PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.4.3.20.10 Force LTR Override	Force LTR Override for ITBT PCIE. Disabled: LTR override values will not be forced. Enable: LTR override values will be forced and LTR messages	Possible Choices: • Disabled • Enabled Default Value:

	from the device will be ignored.	• Disabled
2.4.3.20.11 LTR Lock	PCIE LTR Configuration Lock	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.3.21 PCI Express Root Port 2		
2.4.3.21.1 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.3.21.2 SA PCIe LTR Configuration		
2.4.3.21.3 LTR	PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.21.4 Snoop Latency Override	Snoop Latency Override for SA PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.21.5 Snoop Latency Value	LTR Snoop Latency value of SA PCIE	Default Value: • 200 Numeric Range: Minimum Value: 0 Maximum Value: 1023

2.4.3.21.6 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of SA PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.4.3.21.7 Non Snoop Latency Override	Non Snoop Latency Override for SA PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.21.8 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 200 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.4.3.21.9 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of SA PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.4.3.21.10 Force LTR Override	Force LTR Override for ITBT PCIE. Disabled: LTR override values will not be forced. Enable: LTR override values will be forced and LTR messages	Possible Choices: • Disabled • Enabled Default Value:

	from the device will be ignored.	• Disabled
2.4.3.21.11 LTR Lock	PCIE LTR Configuration Lock	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.3.22 PCI Express Root Port 3		
2.4.3.22.1 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.3.22.2 SA PCIe LTR Configuration		
2.4.3.22.3 LTR	PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.22.4 Snoop Latency Override	Snoop Latency Override for SA PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.22.5 Snoop Latency Value	LTR Snoop Latency value of SA PCIE	Default Value: • 200 Numeric Range: Minimum Value: 0 Maximum Value: 1023

2.4.3.22.6 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of SA PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.4.3.22.7 Non Snoop Latency Override	Non Snoop Latency Override for SA PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.4.3.22.8 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 200 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.4.3.22.9 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of SA PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.4.3.22.10 Force LTR Override	Force LTR Override for ITBT PCIE. Disabled: LTR override values will not be forced. Enable: LTR override values will be forced and LTR messages	Possible Choices: • Disabled • Enabled Default Value:

	from the device will be ignored.	• Disabled
2.4.3.22.11 LTR Lock	PCIE LTR Configuration Lock	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.4 GNA Device (B0:D8:F0)	Enable/Disable SA GNA Device.	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.4.5 Above 4GB MMIO BIOS assignment	Enable/Disable above 4GB MemoryMappedIO BIOS assignment This is enabled automatically when Aperture Size is set to 2048MB.	Possible Choices: • Enabled Default Value: • Enabled
2.4.6 MIPI Camera Configuration		
2.4.6.1 CVF/CVS Support	Disable/Enable CVF(POR for MTL)/CVS(POR for ARL)	Possible Choices: • Disabled • Enable CVF(Clover Falls) • Enable CVS(Computer Vision Sensing) Default Value: • Disabled
2.4.6.2 CVF/CVS Test Device	Test Device for virtual GPIO and virtual I2C Virtual I2C is not supported with CVS	Possible Choices: • Disabled • GPIO • I2C Default Value: • Disabled

2.4.6.3 Control Logic 1		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.6.4 Control Logic options		
2.4.6.4.1 Control Logic Type		Possible Choices: • Discrete • PMIC_TPS68470 • PMIC_UP6641 • PMIC_HDMI2MIPI_LT6911UXC • PMIC_USER0 • PMIC_USER1 Default Value: • PMIC_TPS68470
2.4.6.4.2 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 Default Value: • CRD-G2
2.4.6.4.3 Input Clock		Possible Choices: • 20 MHz • 24 MHz • 26 MHz • 19.2 MHz Default Value: • 20 MHz
2.4.6.4.4 PCH Clock Source	This option specifies which IMGCLKOUT is chosen	Possible Choices: • IMGCLKOUT_0

		• IMGCLKOUT_1 • IMGCLKOUT_2 • IMGCLKOUT_3 • IMGCLKOUT_4 Default Value: • IMGCLKOUT_2
2.4.6.4.5 PMIC Flash Panel		Possible Choices: • Front • Back Default Value: • Back
2.4.6.4.6 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C1
2.4.6.4.7 I2C Address		Default Value: • 77 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.4.8 WLED1 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value:

		• White Led
2.4.6.4.9 WLED1 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.4.10 WLED1 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.4.11 WLED2 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled
2.4.6.4.12 WLED2 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.4.13 WLED2 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 7
2.4.6.4.14 SubPlatformId		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.4.15 Number of GPIO Pins		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 6
2.4.6.4.16 GPIO 0		
2.4.6.4.17 Group Pad Number		Default Value: • 22 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.4.18 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.4.19 Com number		Possible Choices: • COM0 • COM1 • COM3

		• COM4 • COM5 Default Value: • COM4
2.4.6.4.20 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.4.21 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.22 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.23 GPIO 1		
2.4.6.4.24 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0

		Maximum Value: 23
2.4.6.4.25 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.4.26 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.4.27 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.4.28 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.29 Initial Value		

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.30 GPIO 2		
2.4.6.4.31 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.4.32 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.4.33 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.4.34 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT

		Default Value: • Clock_En
2.4.6.4.35 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.36 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.37 GPIO 3		
2.4.6.4.38 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.4.39 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.4.40 Com number		Possible Choices: • COM0 • COM1

		• COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.4.41 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.4.42 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.43 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.44 GPIO 4		
2.4.6.4.45 Group Pad Number		Default Value: • 11 Numeric Range:

		Minimum Value: 0 Maximum Value: 23
2.4.6.4.46 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.4.47 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.4.48 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.4.49 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.50 Initial Value		

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.51 GPIO 5		
2.4.6.4.52 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.4.53 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.4.54 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.4.55 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En

		Default Value: • Reset
2.4.6.4.56 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.4.57 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.5 Control Logic 2		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.6.6 Control Logic options		
2.4.6.6.1 Control Logic Type		Possible Choices: • Discrete • PMIC_TPS68470 • PMIC_UP6641 • PMIC_HDMI2MIPI_LT6911UXC • PMIC_USER0 • PMIC_USER1 Default Value: • Discrete
2.4.6.6.2 CRD Version		Possible Choices:

		• PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 • LT6911UXC-V1 Default Value: • CRD-D
2.4.6.6.3 Input Clock		Possible Choices: • 20 MHz • 24 MHz • 26 MHz • 19.2 MHz Default Value: • 19.2 MHz
2.4.6.6.4 PCH Clock Source	This option specifies which IMGCLKOUT is chosen	Possible Choices: • IMGCLKOUT_0 • IMGCLKOUT_1 • IMGCLKOUT_2 • IMGCLKOUT_3 • IMGCLKOUT_4 Default Value: • IMGCLKOUT_0
2.4.6.6.5 PMIC Flash Panel		Possible Choices: • Front • Back Default Value: • Back
2.4.6.6.6 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6

		• I2C7 Default Value: • I2C3
2.4.6.6.7 I2C Address		Default Value: • 73 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.6.8 WLED1 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled
2.4.6.6.9 WLED1 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.6.10 WLED1 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.6.11 WLED2 Type	WLED Type	Possible Choices: • Disabled

		• White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled
2.4.6.6.12 WLED2 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.6.13 WLED2 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.6.14 SubPlatformId		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.6.15 Number of GPIO Pins		Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 6
2.4.6.6.16 GPIO 0		

2.4.6.6.17 Group Pad Number		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.6.18 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.6.19 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM3
2.4.6.6.20 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.6.21 Active Value		Default Value: • 1

		Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.22 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.23 GPIO 1		
2.4.6.6.24 Group Pad Number		Default Value: • 17 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.6.25 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.6.26 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM1
2.4.6.6.27 Function		

		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Power_En
2.4.6.6.28 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.29 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.30 GPIO 2		
2.4.6.6.31 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.6.32 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C

		Default Value: • D_E_F_V
2.4.6.6.33 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.6.34 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.6.35 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.36 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1

2.4.6.6.37 GPIO 3		
2.4.6.6.38 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.6.39 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • D_E_F_V
2.4.6.6.40 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM3
2.4.6.6.41 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.6.42 Active Value		

		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.43 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.44 GPIO 4		
2.4.6.6.45 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.6.46 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • D_E_F_V
2.4.6.6.47 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4

2.4.6.6.48 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.6.49 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.50 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.51 GPIO 5		
2.4.6.6.52 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.6.53 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C

		Default Value: • D_E_F_V
2.4.6.6.54 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.6.55 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.6.56 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.6.57 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.7 Control Logic 3		

		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.6.8 Control Logic options		
2.4.6.8.1 Control Logic Type		Possible Choices: • Discrete • PMIC_TPS68470 • PMIC_UP6641 • PMIC_HDMI2MIPI_LT6911UXC • PMIC_USER0 • PMIC_USER1 Default Value: • PMIC_TPS68470
2.4.6.8.2 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 • LT6911UXC-V1 Default Value: • CRD-G
2.4.6.8.3 Input Clock		Possible Choices: • 20 MHz • 24 MHz • 26 MHz • 19.2 MHz Default Value: • 20 MHz
2.4.6.8.4 PCH Clock Source	This option specifies which IMGCLKOUT is chosen	Possible Choices: • IMGCLKOUT_0 • IMGCLKOUT_1

		• IMGCLKOUT_2 • IMGCLKOUT_3 • IMGCLKOUT_4 Default Value: • IMGCLKOUT_0
2.4.6.8.5 PMIC Flash Panel		Possible Choices: • Front • Back Default Value: • Back
2.4.6.8.6 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C3
2.4.6.8.7 I2C Address		Default Value: • 73 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.8.8 WLED1 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled

2.4.6.8.9 WLED1 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.8.10 WLED1 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.8.11 WLED2 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled
2.4.6.8.12 WLED2 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.8.13 WLED2 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 7
2.4.6.8.14 SubPlatformId		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.8.15 Number of GPIO Pins		Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 6
2.4.6.8.16 GPIO 0		
2.4.6.8.17 Group Pad Number		Default Value: • 22 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.8.18 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.8.19 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4

		• COM5 Default Value: • COM4
2.4.6.8.20 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.8.21 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.22 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.23 GPIO 1		
2.4.6.8.24 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23

2.4.6.8.25 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.8.26 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.8.27 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.8.28 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.29 Initial Value		Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.30 GPIO 2		
2.4.6.8.31 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.8.32 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.8.33 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.8.34 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT

		Default Value: • Reset
2.4.6.8.35 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.36 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.37 GPIO 3		
2.4.6.8.38 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.8.39 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.8.40 Com number		Possible Choices: • COM0 • COM1 • COM3

		• COM4 • COM5 Default Value: • COM4
2.4.6.8.41 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.8.42 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.43 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.44 GPIO 4		
2.4.6.8.45 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23

2.4.6.8.46 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.8.47 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.8.48 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.8.49 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.50 Initial Value		Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.51 GPIO 5		
2.4.6.8.52 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.8.53 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.8.54 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.8.55 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset

2.4.6.8.56 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.8.57 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.9 Control Logic 4		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.6.10 Control Logic options		
2.4.6.10.1 Control Logic Type		Possible Choices: • Discrete • PMIC_TPS68470 • PMIC_UP6641 • PMIC_HDMI2MIPI_LT6911UXC • PMIC_USER0 • PMIC_USER1 Default Value: • Discrete
2.4.6.10.2 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV

		• CRD-G2 • LT6911UXC-V1 Default Value: • CRD-G
2.4.6.10.3 Input Clock		Possible Choices: • 20 MHz • 24 MHz • 26 MHz • 19.2 MHz Default Value: • 20 MHz
2.4.6.10.4 PCH Clock Source	This option specifies which IMGCLKOUT is chosen	Possible Choices: • IMGCLKOUT_0 • IMGCLKOUT_1 • IMGCLKOUT_2 • IMGCLKOUT_3 • IMGCLKOUT_4 Default Value: • IMGCLKOUT_0
2.4.6.10.5 PMIC Flash Panel		Possible Choices: • Front • Back Default Value: • Back
2.4.6.10.6 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C3

2.4.6.10.7 I2C Address		Default Value: • 73 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.10.8 WLED1 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled
2.4.6.10.9 WLED1 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.10.10 WLED1 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.10.11 WLED2 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led

		Default Value: • Disabled
2.4.6.10.12 WLED2 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.10.13 WLED2 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.10.14 SubPlatformId		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.10.15 Number of GPIO Pins		Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 6
2.4.6.10.16 GPIO 0		
2.4.6.10.17 Group Pad Number		Default Value: • 22

		Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.10.18 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.10.19 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.10.20 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.10.21 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1

2.4.6.10.22 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.10.23 GPIO 1		
2.4.6.10.24 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.10.25 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.10.26 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.10.27 Function		Possible Choices: • Reset • Power_En • Clock_En

		• pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.10.28 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.10.29 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.10.30 GPIO 2		
2.4.6.10.31 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.10.32 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S

2.4.6.10.33 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.10.34 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.10.35 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.10.36 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.10.37 GPIO 3		
2.4.6.10.38 Group Pad Number		

		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.10.39 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.10.40 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.10.41 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.10.42 Active Value		Default Value: • 1 Numeric Range:

		Minimum Value: 0 Maximum Value: 1
2.4.6.10.43 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.10.44 GPIO 4		
2.4.6.10.45 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.10.46 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.10.47 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.10.48 Function		Possible Choices: • Reset

		• Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.10.49 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.10.50 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.10.51 GPIO 5		
2.4.6.10.52 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.10.53 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S

2.4.6.10.54 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.10.55 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.10.56 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.10.57 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.11 Control Logic 5		Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.4.6.12 Control Logic options		
2.4.6.12.1 Control Logic Type		Possible Choices: • Discrete • PMIC_TPS68470 • PMIC_UP6641 • PMIC_HDMI2MIPI_LT6911UXC • PMIC_USER0 • PMIC_USER1 Default Value: • PMIC_TPS68470
2.4.6.12.2 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 • LT6911UXC-V1 Default Value: • CRD-G
2.4.6.12.3 Input Clock		Possible Choices: • 20 MHz • 24 MHz • 26 MHz • 19.2 MHz Default Value: • 20 MHz
2.4.6.12.4 PCH Clock Source	This option specifies which IMGCLKOUT is chosen	Possible Choices: • IMGCLKOUT_0 • IMGCLKOUT_1 • IMGCLKOUT_2 • IMGCLKOUT_3 • IMGCLKOUT_4

		Default Value: • IMGCLKOUT_0
2.4.6.12.5 PMIC Flash Panel		Possible Choices: • Front • Back Default Value: • Back
2.4.6.12.6 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C3
2.4.6.12.7 I2C Address		Default Value: • 73 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.12.8 WLED1 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled
2.4.6.12.9 WLED1 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F	

	0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.12.10 WLED1 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.12.11 WLED2 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled
2.4.6.12.12 WLED2 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.12.13 WLED2 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.12.14 SubPlatformId		

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.12.15 Number of GPIO Pins		Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 6
2.4.6.12.16 GPIO 0		
2.4.6.12.17 Group Pad Number		Default Value: • 22 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.12.18 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.12.19 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4

2.4.6.12.20 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.12.21 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.22 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.23 GPIO 1		
2.4.6.12.24 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.12.25 Group Number		Possible Choices:

		• A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.12.26 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.12.27 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.12.28 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.29 Initial Value		Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 1
2.4.6.12.30 GPIO 2		
2.4.6.12.31 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.12.32 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.12.33 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.12.34 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset

2.4.6.12.35 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.36 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.37 GPIO 3		
2.4.6.12.38 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.12.39 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.12.40 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5

		Default Value: • COM4
2.4.6.12.41 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.12.42 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.43 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.44 GPIO 4		
2.4.6.12.45 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23

2.4.6.12.46 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • D_E_F_V
2.4.6.12.47 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.12.48 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.12.49 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.50 Initial Value		Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.51 GPIO 5		
2.4.6.12.52 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.12.53 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.12.54 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.12.55 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset

2.4.6.12.56 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.12.57 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.13 Control Logic 6		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.4.6.14 Control Logic options		
2.4.6.14.1 Control Logic Type		Possible Choices: • Discrete • PMIC_TPS68470 • PMIC_UP6641 • PMIC_HDMI2MIPI_LT6911UXC • PMIC_USER0 • PMIC_USER1 Default Value: • Discrete
2.4.6.14.2 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV

		• CRD-G2 • LT6911UXC-V1 Default Value: • CRD-G
2.4.6.14.3 Input Clock		Possible Choices: • 20 MHz • 24 MHz • 26 MHz • 19.2 MHz Default Value: • 20 MHz
2.4.6.14.4 PCH Clock Source	This option specifies which IMGCLKOUT is chosen	Possible Choices: • IMGCLKOUT_0 • IMGCLKOUT_1 • IMGCLKOUT_2 • IMGCLKOUT_3 • IMGCLKOUT_4 Default Value: • IMGCLKOUT_0
2.4.6.14.5 PMIC Flash Panel		Possible Choices: • Front • Back Default Value: • Back
2.4.6.14.6 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C3

2.4.6.14.7 I2C Address		Default Value: • 73 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.14.8 WLED1 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled
2.4.6.14.9 WLED1 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.14.10 WLED1 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.14.11 WLED2 Type	WLED Type	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led

		Default Value: • Disabled
2.4.6.14.12 WLED2 Flash Max Current	WLED Flash Max Current Valid range is 0x00-0x1F 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 31
2.4.6.14.13 WLED2 Torch Max Current	WLED Torch Max Current Valid range is 0x00-0x07 0x00 for HW default max current	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.4.6.14.14 SubPlatformId		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.14.15 Number of GPIO Pins		Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 6
2.4.6.14.16 GPIO 0		
2.4.6.14.17 Group Pad Number		Default Value: • 22

		Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.14.18 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.14.19 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.14.20 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.14.21 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1

2.4.6.14.22 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.14.23 GPIO 1		
2.4.6.14.24 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.14.25 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.14.26 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.14.27 Function		Possible Choices: • Reset • Power_En • Clock_En

		• pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.14.28 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.14.29 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.14.30 GPIO 2		
2.4.6.14.31 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.14.32 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S

2.4.6.14.33 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.14.34 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.14.35 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.14.36 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.14.37 GPIO 3		
2.4.6.14.38 Group Pad Number		

		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.14.39 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.14.40 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.14.41 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En • READY_STAT • HDMI_DETECT Default Value: • Reset
2.4.6.14.42 Active Value		Default Value: • 1 Numeric Range:

		Minimum Value: 0 Maximum Value: 1
2.4.6.14.43 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.14.44 GPIO 4		
2.4.6.14.45 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.14.46 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.14.47 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.14.48 Function		Possible Choices: • Reset

		• Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.14.49 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.14.50 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.14.51 GPIO 5		
2.4.6.14.52 Group Pad Number		Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.4.6.14.53 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S

2.4.6.14.54 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.14.55 Function		Possible Choices: • Reset • Power_En • Clock_En • pLED_En • Strobe_En • Handshake_En Default Value: • Reset
2.4.6.14.56 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.14.57 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.15 Camera1		Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.4.6.16 Link0 options		
2.4.6.16.1 Camera1		
2.4.6.16.2 Sensor Model		Possible Choices: • IMX135 • OV5693 • IMX179 • OV8858 • OV2740-IVCAM • OV9728 • IMX188 • IMX208 • OV5670 • OV8865 • HM2051 • OV2742 • OV9234 • OV8856 • OV16860 • IMX362 • IMX488 • OVTI01AS • OVTI01A0 • OVTI5678 • OVTI9738 • HIMAX11B1 • OVTI01AF • OVTI13B1 • LONTIUM • Custom Display Bridge • User Custom Default Value: • OVTI13B1
2.4.6.16.3 Audio HID		
2.4.6.16.4 Custom HID		
2.4.6.16.5 Lanes Clock division		Possible Choices: • 4 4 2 2 • 4 4 3 1 • 4 4 4 0 • 8 0 2 2 • 8 0 3 1

		• 8 0 4 0 Default Value: • 4 4 2 2
2.4.6.16.6 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 Default Value: • CRD-G2
2.4.6.16.7 GPIO control		Possible Choices: • No Control Logic • Control Logic 1 • Control Logic 2 • Control Logic 3 • Control Logic 4 • Control Logic 5 • Control Logic 6 Default Value: • Control Logic 1
2.4.6.16.8 Camera position		Possible Choices: • Front • Back Default Value: • Back
2.4.6.16.9 Flash Support		Possible Choices: • Driver default • Disabled • Enabled Default Value: • Enabled
2.4.6.16.10 Privacy LED		

		Possible Choices: • Driver default • ILEDA, 16mA • ILEDB, 2mA • ILEDB, 4mA • ILEDB, 8mA • ILEDB, 16mA Default Value: • Driver default
2.4.6.16.11 Rotation		Possible Choices: • 0 • 90 • 180 • 270 Default Value: • 0
2.4.6.16.12 PMIC Position	PMIC Position Position 1 indicates the current module is placed on the left side of the CRD-G2 card Position 2 indicates the current module is placed on the right side of the CRD-G2 card	Possible Choices: • Position 1 • Position 2 Default Value: • Position 1
2.4.6.16.13 Voltage Rail		Possible Choices: • 3 voltage rail • 2 voltage rail Default Value: • 3 voltage rail
2.4.6.16.14 PPR Value	PPR value of sensor	Default Value: • 16 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.4.6.16.15 PPR Unit	PPR unit of sensor	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.16.16 Camera module name		
2.4.6.16.17 MIPI port	LinkUsed	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.4.6.16.18 LaneUsed		Possible Choices: • x1 • x2 • x3 • x4 • x8 Default Value: • x4
2.4.6.16.19 MCLK		Default Value: • 19200000 Numeric Range: Minimum Value: 0 Maximum Value: 0
2.4.6.16.20 EEPROM Type	EEPROM Type 0x00: ROM_NONE 0x01: ROM_OTP 0x02: ROM_EEPROM_16K_64 0x03: ROM_EEPROM_16K_16 0x04: ROM_OTP_ACPI_ACPI 0x05: ROM_ACPI	Possible Choices: • ROM_NONE • ROM_OTP • ROM_EEPROM_16K_64 • ROM_EEPROM_16K_16

	0x06: ROM_EEPROM_BRCA016GWZ 0x07: ROM_EEPROM_24AA32 0x08: ROM_EEPROM_CAT24C08 0x09: ROM_M24C64 0x0A: ROM_DW9806B 0x10: ROM_EEPROM_CAT24C16 0x11: ROM_EEPROM_CAT24C64 0x12: ROM_EEPROM_24AA16	• ROM_OTP_ACPI_ACPI • ROM_ACPI • ROM_EEPROM_BRCA016GWZ • ROM_EEPROM_24AA32 • ROM_EEPROM_CAT24C08 • ROM_EEPROM_M24C64 • ROM_EEPROM_DW9806B • ROM_EEPROM_CAT24C16 • ROM_EEPROM_CAT24C64 • ROM_EEPROM_24AA16 • User Custom Default Value: • ROM_EEPROM_BRCA016GWZ
2.4.6.16.21 Custom EEPROM		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.16.22 VCM Type	VCM Type 0x00: VCM_NONE 0x01: VCM_AD5823 0x02: VCM_DW9714 0x03: VCM_AD5816 0x04: VCM_DW9719 0x05: VCM_DW9718 0x06: VCM_DW9806B 0x07: VCM_WV517S 0x08: VCM_LC898122XA 0x09: VCM_LC898212AXB 0x0F: VCM_AK7371 0x10: VCM_BU64297GWZ	Possible Choices: • VCM_NONE • VCM_AD5823 • VCM_DW9714 • VCM_AD5816 • VCM_DW9719 • VCM_DW9718 • VCM_DW9806B • VCM_WV517S • VCM_LC898122XA • VCM_LC898212AXB • VCM_RESERVED1 • VCM_RESERVED2 • VCM_AK7371 • VCM_BU64297GWZ • User Custom Default Value: • VCM_DW9714

2.4.6.16.23 Custom VMC		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.16.24 Number of I2C Components		Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 12
2.4.6.16.25 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C1
2.4.6.16.26 Device 0		
2.4.6.16.27 I2C Address	I2C Address	Default Value: • 16 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.28 Device Type		Possible Choices:

		• Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.16.29 Device 1		
2.4.6.16.30 I2C Address	I2C Address	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.31 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • VCM

2.4.6.16.32 Device 2		
2.4.6.16.33 I2C Address	I2C Address	Default Value: • 80 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.34 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM
2.4.6.16.35 Device 3		
2.4.6.16.36 I2C Address	I2C Address	Default Value: • 81 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.37 Device Type		Possible Choices: • Sensor • VCM

		• EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT1
2.4.6.16.38 Device 4		
2.4.6.16.39 I2C Address	I2C Address	Default Value: • 82 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.40 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT2

2.4.6.16.41 Device 5		
2.4.6.16.42 I2C Address	I2C Address	Default Value: • 83 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.43 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT3
2.4.6.16.44 Device 6		
2.4.6.16.45 I2C Address	I2C Address	Default Value: • 84 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.46 Device Type		Possible Choices: • Sensor • VCM • EEPROM

		• EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT4
2.4.6.16.47 Device 7		
2.4.6.16.48 I2C Address	I2C Address	Default Value: • 85 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.49 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT5
2.4.6.16.50 Device 8		

2.4.6.16.51 I2C Address	I2C Address	Default Value: • 86 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.52 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT6
2.4.6.16.53 Device 9		
2.4.6.16.54 I2C Address	I2C Address	Default Value: • 87 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.55 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2

		• EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT7
2.4.6.16.56 Device 10		
2.4.6.16.57 I2C Address	I2C Address	Default Value: • 88 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.58 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • IO Expander
2.4.6.16.59 Device 11		
2.4.6.16.60 I2C Address	I2C Address	

		Default Value: • 89 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.16.61 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.16.62 Customize Device ID List		
2.4.6.16.63 Customize Device1 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 17 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.16.64 Customize Device2 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 18 Numeric Range: Minimum Value: 17 Maximum Value: 255

2.4.6.16.65 Customize Device3 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 19 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.16.66 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Disabled • External • Internal PMIC Default Value: • Disabled
2.4.6.16.67 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Flash1 • Flash2 • Flash3 • Flash4 • Flash5 • Flash6 Default Value: • Flash1
2.4.6.17 Flash Options		
2.4.6.17.1 Flash1		
2.4.6.17.2 Flash Model		Possible Choices: • External - LM3643 • PMIC - WRC Default Value: • PMIC - WRC
2.4.6.17.3 Flash Mode	Select Flash Mode White LED/Warm LED/IR LED/Xeon LED	Possible Choices: • Disabled • White Led

		• Warm Led • IR Led • Xeon Led Default Value: • White Led
2.4.6.17.4 Camera module name		
2.4.6.17.5 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C1
2.4.6.17.6 I2C Address		Default Value: • 103 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.17.7 Flash Trigger Gpio		
2.4.6.17.8 Group Pad Number		Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 88
2.4.6.17.9 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C

		Default Value: • A_B_H_S
2.4.6.17.10 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.17.11 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.17.12 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.17.13 Flash Driver Operating Mode	Select the Flash Driver Operating Mode as Disabled , Torch or Flash	Possible Choices: • Don't flash or light up • Light with ITORCH current continuously • Flash with IFLASH current when TRIGGERed Default Value: • Don't flash or light up
2.4.6.18 Camera2		Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.4.6.19 Link1 options		
2.4.6.19.1 Camera2		
2.4.6.19.2 Sensor Model		Possible Choices: • IMX135 • OV5693 • IMX179 • OV8858 • OV2740-IVCAM • OV9728 • IMX188 • IMX208 • OV5670 • OV8865 • HM2051 • OV2742 • OV9234 • OV8856 • OV16860 • IMX362 • IMX488 • OVTI01AS • OVTI01A0 • OVTI5678 • OVTI9738 • HIMAX11B1 • OVTI01AF • OVTI13B1 • LONTIUM • Custom Display Bridge • User Custom Default Value: • OVTI01AS
2.4.6.19.3 Audio HID		
2.4.6.19.4 Custom HID		
2.4.6.19.5 Lanes Clock division		Possible Choices: • 4 4 2 2 • 4 4 3 1

		• 4 4 4 0 • 8 0 2 2 • 8 0 3 1 • 8 0 4 0 Default Value: • 4 4 2 2
2.4.6.19.6 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 Default Value: • CRD-G2
2.4.6.19.7 GPIO control		Possible Choices: • No Control Logic • Control Logic 1 • Control Logic 2 • Control Logic 3 • Control Logic 4 • Control Logic 5 • Control Logic 6 Default Value: • Control Logic 1
2.4.6.19.8 Camera position		Possible Choices: • Front • Back Default Value: • Front
2.4.6.19.9 Flash Support		Possible Choices: • Driver default • Disabled • Enabled Default Value: • Enabled

2.4.6.19.10 Privacy LED		Possible Choices: • Driver default • ILEDA, 16mA • ILEDB, 2mA • ILEDB, 4mA • ILEDB, 8mA • ILEDB, 16mA Default Value: • Driver default
2.4.6.19.11 Rotation		Possible Choices: • 0 • 90 • 180 • 270 Default Value: • 0
2.4.6.19.12 PMIC Position	PMIC Position Position 1 indicates the current module is placed on the left side of the CRD-G2 card Position 2 indicates the current module is placed on the right side of the CRD-G2 card	Possible Choices: • Position 1 • Position 2 Default Value: • Position 2
2.4.6.19.13 Voltage Rail		Possible Choices: • 3 voltage rail • 2 voltage rail Default Value: • 3 voltage rail
2.4.6.19.14 PPR Value	PPR value of sensor	Default Value: • 16 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.4.6.19.15 PPR Unit	PPR unit of sensor	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.19.16 Camera module name		
2.4.6.19.17 MIPI port	LinkUsed	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.4.6.19.18 LaneUsed		Possible Choices: • x1 • x2 • x3 • x4 Default Value: • x1
2.4.6.19.19 MCLK		Default Value: • 19200000 Numeric Range: Minimum Value: 0 Maximum Value: 0
2.4.6.19.20 EEPROM Type	EEPROM Type 0x00: ROM_NONE 0x01: ROM_OTP 0x02: ROM_EEPROM_16K_64 0x03: ROM_EEPROM_16K_16 0x04: ROM_OTP_ACPI_ACPI	Possible Choices: • ROM_NONE • ROM_OTP • ROM_EEPROM_16K_64

	0x05: ROM_ACPI 0x06: ROM_EEPROM_BRCA016GWZ 0x07: ROM_EEPROM_24AA32 0x08: ROM_EEPROM_CAT24C08 0x09: ROM_M24C64 0x0A: ROM_DW9806B 0x10: ROM_EEPROM_CAT24C16 0x11: ROM_EEPROM_CAT24C64 0x12: ROM_EEPROM_24AA16	• ROM_EEPROM_16K_16 • ROM_OTP_ACPI_ACPI • ROM_ACPI • ROM_EEPROM_BRCA016GWZ • ROM_EEPROM_24AA32 • ROM_EEPROM_CAT24C08 • ROM_EEPROM_M24C64 • ROM_EEPROM_DW9806B • ROM_EEPROM_CAT24C16 • ROM_EEPROM_CAT24C64 • ROM_EEPROM_24AA16 • User Custom Default Value: • ROM_NONE
2.4.6.19.21 Custom EEPROM		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.19.22 VCM Type	VCM Type 0x00: VCM_NONE 0x01: VCM_AD5823 0x02: VCM_DW9714 0x03: VCM_AD5816 0x04: VCM_DW9719 0x05: VCM_DW9718 0x06: VCM_DW9806B 0x07: VCM_WV517S 0x08: VCM_LC898122XA 0x09: VCM_LC898212AXB 0x0F: VCM_AK7371 0x10: VCM_BU64297GWZ	Possible Choices: • VCM_NONE • VCM_AD5823 • VCM_DW9714 • VCM_AD5816 • VCM_DW9719 • VCM_DW9718 • VCM_DW9806B • VCM_WV517S • VCM_LC898122XA • VCM_LC898212AXB • VCM_RESERVED1 • VCM_RESERVED2 • VCM_AK7371 • VCM_BU64297GWZ • User Custom Default Value: • VCM_NONE

2.4.6.19.23 Custom VMC		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.19.24 Number of I2C Components		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 12
2.4.6.19.25 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C1
2.4.6.19.26 Device 0		
2.4.6.19.27 I2C Address	I2C Address	Default Value: • 54 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.28 Device Type		Possible Choices:

		• Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.19.29 Device 1		
2.4.6.19.30 I2C Address	I2C Address	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.31 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • VCM

2.4.6.19.32 Device 2		
2.4.6.19.33 I2C Address	I2C Address	Default Value: • 80 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.34 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM
2.4.6.19.35 Device 3		
2.4.6.19.36 I2C Address	I2C Address	Default Value: • 81 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.37 Device Type		Possible Choices: • Sensor • VCM

		• EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT1
2.4.6.19.38 Device 4		
2.4.6.19.39 I2C Address	I2C Address	Default Value: • 82 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.40 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT2

2.4.6.19.41 Device 5		
2.4.6.19.42 I2C Address	I2C Address	Default Value: • 83 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.43 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT3
2.4.6.19.44 Device 6		
2.4.6.19.45 I2C Address	I2C Address	Default Value: • 84 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.46 Device Type		Possible Choices: • Sensor • VCM • EEPROM

		• EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT4
2.4.6.19.47 Device 7		
2.4.6.19.48 I2C Address	I2C Address	Default Value: • 85 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.49 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT5
2.4.6.19.50 Device 8		

2.4.6.19.51 I2C Address	I2C Address	Default Value: • 86 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.52 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT6
2.4.6.19.53 Device 9		
2.4.6.19.54 I2C Address	I2C Address	Default Value: • 87 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.55 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2

		• EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT7
2.4.6.19.56 Device 10		
2.4.6.19.57 I2C Address	I2C Address	Default Value: • 88 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.58 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • IO Expander
2.4.6.19.59 Device 11		
2.4.6.19.60 I2C Address	I2C Address	

		Default Value: • 89 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.19.61 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Flash
2.4.6.19.62 Customize Device ID List		
2.4.6.19.63 Customize Device1 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 17 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.19.64 Customize Device2 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 18 Numeric Range: Minimum Value: 17 Maximum Value: 255

2.4.6.19.65 Customize Device3 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 19 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.19.66 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Disabled • External • Internal PMIC Default Value: • External
2.4.6.19.67 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Flash1 • Flash2 • Flash3 • Flash4 • Flash5 • Flash6 Default Value: • Flash2
2.4.6.20 Flash Options		
2.4.6.20.1 Flash2		
2.4.6.20.2 Flash Model		Possible Choices: • External - LM3643 • PMIC - WRC Default Value: • External - LM3643
2.4.6.20.3 Flash Mode	Select Flash Mode White LED/Warm LED/IR LED/Xeon LED	Possible Choices: • Disabled • White Led

		• Warm Led • IR Led • Xeon Led Default Value: • IR Led
2.4.6.20.4 Camera module name		
2.4.6.20.5 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C1
2.4.6.20.6 I2C Address		Default Value: • 99 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.20.7 Flash Trigger Gpio		
2.4.6.20.8 Group Pad Number		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 88
2.4.6.20.9 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C

		Default Value: • A_B_H_S
2.4.6.20.10 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM5
2.4.6.20.11 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.20.12 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.20.13 Flash Driver Operating Mode	Select the Flash Driver Operating Mode as Disabled , Torch or Flash	Possible Choices: • Don't flash or light up • Light with ITORCH current continuously • Flash with IFLASH current when TRIGGERed Default Value: • Don't flash or light up
2.4.6.21 Camera3		Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.4.6.22 Link2 options		
2.4.6.22.1 Camera3		
2.4.6.22.2 Sensor Model		Possible Choices: • IMX135 • OV5693 • IMX179 • OV8858 • OV2740-IVCAM • OV9728 • IMX188 • IMX208 • OV5670 • OV8865 • HM2051 • OV2742 • OV9234 • OV8856 • OV16860 • IMX362 • IMX488 • OVTI01AS • OVTI01A0 • OVTI5678 • OVTI9738 • HIMAX11B1 • OVTI01AF • OVTI13B1 • LONTIUM • User Custom Default Value: • OVTI13B1
2.4.6.22.3 Custom HID		
2.4.6.22.4 Lanes Clock division		Possible Choices: • 4 4 2 2 • 4 4 3 1 • 4 4 4 0 • 8 0 2 2 • 8 0 3 1

		• 8 0 4 0 Default Value: • 4 4 2 2
2.4.6.22.5 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 Default Value: • CRD-D
2.4.6.22.6 GPIO control		Possible Choices: • No Control Logic • Control Logic 1 • Control Logic 2 • Control Logic 3 • Control Logic 4 • Control Logic 5 • Control Logic 6 Default Value: • Control Logic 2
2.4.6.22.7 Camera position		Possible Choices: • Front • Back Default Value: • Front
2.4.6.22.8 Flash Support		Possible Choices: • Driver default • Disabled • Enabled Default Value: • Disabled
2.4.6.22.9 Privacy LED		

		Possible Choices: • Driver default • ILEDA, 16mA • ILEDB, 2mA • ILEDB, 4mA • ILEDB, 8mA • ILEDB, 16mA Default Value: • Driver default
2.4.6.22.10 Rotation		Possible Choices: • 0 • 90 • 180 • 270 Default Value: • 0
2.4.6.22.11 PMIC Position	PMIC Position Position 1 indicates the current module is placed on the left side of the CRD-G2 card Position 2 indicates the current module is placed on the right side of the CRD-G2 card	Possible Choices: • Position 1 • Position 2 Default Value: • Position 1
2.4.6.22.12 Voltage Rail		Possible Choices: • 3 voltage rail • 2 voltage rail Default Value: • 3 voltage rail
2.4.6.22.13 PPR Value	PPR value of sensor	Default Value: • 16 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.4.6.22.14 PPR Unit	PPR unit of sensor	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.22.15 Camera module name		
2.4.6.22.16 MIPI port	LinkUsed	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.4.6.22.17 LaneUsed		Possible Choices: • x1 • x2 • x3 • x4 Default Value: • x2
2.4.6.22.18 MCLK		Default Value: • 19200000 Numeric Range: Minimum Value: 0 Maximum Value: 0
2.4.6.22.19 EEPROM Type	EEPROM Type 0x00: ROM_NONE 0x01: ROM_OTP 0x02: ROM_EEPROM_16K_64 0x03: ROM_EEPROM_16K_16 0x04: ROM_OTP_ACPI_ACPI 0x05: ROM_ACPI 0x06:	Possible Choices: • ROM_NONE • ROM_OTP • ROM_EEPROM_16K_64 • ROM_EEPROM_16K_16 • ROM_OTP_ACPI_ACPI

	ROM_EEPROM_BRCA016GWZ 0x07: ROM_EEPROM_24AA32 0x08: ROM_EEPROM_CAT24C08 0x09: ROM_M24C64 0x0A: ROM_DW9806B 0x10: ROM_EEPROM_CAT24C16 0x11: ROM_EEPROM_CAT24C64 0x12: ROM_EEPROM_24AA16	• ROM_ACPI • ROM_EEPROM_BRCA016GWZ • ROM_EEPROM_24AA32 • ROM_EEPROM_CAT24C08 • ROM_EEPROM_M24C64 • ROM_EEPROM_DW9806B • ROM_EEPROM_CAT24C16 • ROM_EEPROM_CAT24C64 • ROM_EEPROM_24AA16 • User Custom Default Value: • ROM_EEPROM_BRCA016GWZ
2.4.6.22.20 Custom EEPROM		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.22.21 VCM Type	VCM Type 0x00: VCM_NONE 0x01: VCM_AD5823 0x02: VCM_DW9714 0x03: VCM_AD5816 0x04: VCM_DW9719 0x05: VCM_DW9718 0x06: VCM_DW9806B 0x07: VCM_WV517S 0x08: VCM_LC898122XA 0x09: VCM_LC898212AXB 0x0F: VCM_AK7371 0x10: VCM_BU64297GWZ	Possible Choices: • VCM_NONE • VCM_AD5823 • VCM_DW9714 • VCM_AD5816 • VCM_DW9719 • VCM_DW9718 • VCM_DW9806B • VCM_WV517S • VCM_LC898122XA • VCM_LC898212AXB • VCM_RESERVED1 • VCM_RESERVED2 • VCM_AK7371 • VCM_BU64297GWZ • User Custom Default Value: • VCM_DW9714

2.4.6.22.22 Custom VMC		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.22.23 Number of I2C Components		Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 12
2.4.6.22.24 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C0
2.4.6.22.25 Device 0		
2.4.6.22.26 I2C Address	I2C Address	Default Value: • 16 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.27 Device Type		Possible Choices: • Sensor

		• VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.22.28 Device 1		
2.4.6.22.29 I2C Address	I2C Address	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.30 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • VCM

2.4.6.22.31 Device 2		
2.4.6.22.32 I2C Address	I2C Address	Default Value: • 80 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.33 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM
2.4.6.22.34 Device 3		
2.4.6.22.35 I2C Address	I2C Address	Default Value: • 81 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.36 Device Type		Possible Choices: • Sensor • VCM • EEPROM

		• EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT1
2.4.6.22.37 Device 4		
2.4.6.22.38 I2C Address	I2C Address	Default Value: • 82 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.39 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT2
2.4.6.22.40 Device 5		

2.4.6.22.41 I2C Address	I2C Address	Default Value: • 83 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.42 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT3
2.4.6.22.43 Device 6		
2.4.6.22.44 I2C Address	I2C Address	Default Value: • 84 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.45 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2

		• EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT4
2.4.6.22.46 Device 7		
2.4.6.22.47 I2C Address	I2C Address	Default Value: • 85 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.48 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT5
2.4.6.22.49 Device 8		
2.4.6.22.50 I2C Address	I2C Address	

		Default Value: • 86 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.51 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.22.52 Device 9		
2.4.6.22.53 I2C Address	I2C Address	Default Value: • 87 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.54 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4

		• EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.22.55 Device 10		
2.4.6.22.56 I2C Address	I2C Address	Default Value: • 88 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.57 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.22.58 Device 11		
2.4.6.22.59 I2C Address	I2C Address	Default Value:

		• 89 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.22.60 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.22.61 Customize Device ID List		
2.4.6.22.62 Customize Device1 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 17 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.22.63 Customize Device2 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 18 Numeric Range: Minimum Value: 17 Maximum Value: 255

2.4.6.22.64 Customize Device3 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 19 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.22.65 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Disabled • External • Internal PMIC Default Value: • Disabled
2.4.6.22.66 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Flash1 • Flash2 • Flash3 • Flash4 • Flash5 • Flash6 Default Value: • Flash1
2.4.6.23 Flash Options		
2.4.6.23.1 Flash3		
2.4.6.23.2 Flash Model		Possible Choices: • External - LM3643 • PMIC - WRC Default Value: • External - LM3643
2.4.6.23.3 Flash Mode	Select Flash Mode White LED/Warm LED/IR LED/Xeon LED	Possible Choices: • Disabled • White Led • Warm Led

		• IR Led • Xeon Led Default Value: • IR Led
2.4.6.23.4 Camera module name		
2.4.6.23.5 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C2
2.4.6.23.6 I2C Address		Default Value: • 99 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.23.7 Flash Trigger Gpio		
2.4.6.23.8 Group Pad Number		Default Value: • 18 Numeric Range: Minimum Value: 0 Maximum Value: 88
2.4.6.23.9 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C

		Default Value: • A_B_H_S
2.4.6.23.10 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.23.11 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.23.12 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.23.13 Flash Driver Operating Mode	Select the Flash Driver Operating Mode as Disabled , Torch or Flash	Possible Choices: • Don't flash or light up • Light with ITORCH current continuously • Flash with IFLASH current when TRIGGERed Default Value: • Don't flash or light up
2.4.6.24 Camera4		Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.4.6.25 Link3 options		
2.4.6.25.1 Camera4		
2.4.6.25.2 Sensor Model		Possible Choices: • IMX135 • OV5693 • IMX179 • OV8858 • OV2740-IVCAM • OV9728 • IMX188 • IMX208 • OV5670 • OV8865 • HM2051 • OV2742 • OV9234 • OV8856 • OV16860 • IMX362 • IMX488 • OVTI01AS • OVTI01A0 • OVTI5678 • OVTI9738 • HIMAX11B1 • OVTI01AF • OVTI13B1 • LONTIUM • User Custom Default Value: • OVTI01AS
2.4.6.25.3 Custom HID		
2.4.6.25.4 Lanes Clock division		Possible Choices: • 4 4 2 2 • 4 4 3 1 • 4 4 4 0 • 8 0 2 2 • 8 0 3 1 • 8 0 4 0

		Default Value: • 4 4 2 2
2.4.6.25.5 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 Default Value: • CRD-G2
2.4.6.25.6 GPIO control		Possible Choices: • No Control Logic • Control Logic 1 • Control Logic 2 • Control Logic 3 • Control Logic 4 • Control Logic 5 • Control Logic 6 Default Value: • Control Logic 2
2.4.6.25.7 Camera position		Possible Choices: • Front • Back Default Value: • Front
2.4.6.25.8 Flash Support		Possible Choices: • Driver default • Disabled • Enabled Default Value: • Disabled
2.4.6.25.9 Privacy LED		Possible Choices:

		• Driver default • ILEDA, 16mA • ILEDB, 2mA • ILEDB, 4mA • ILEDB, 8mA • ILEDB, 16mA Default Value: • Driver default
2.4.6.25.10 Rotation		Possible Choices: • 0 • 90 • 180 • 270 Default Value: • 0
2.4.6.25.11 PMIC Position	PMIC Position Position 1 indicates the current module is placed on the left side of the CRD-G2 card Position 2 indicates the current module is placed on the right side of the CRD-G2 card	Possible Choices: • Position 1 • Position 2 Default Value: • Position 2
2.4.6.25.12 Voltage Rail		Possible Choices: • 3 voltage rail • 2 voltage rail Default Value: • 3 voltage rail
2.4.6.25.13 PPR Value	PPR value of sensor	Default Value: • 16 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.4.6.25.14 PPR Unit	PPR unit of sensor	

		Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.25.15 Camera module name		
2.4.6.25.16 MIPI port	LinkUsed	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.4.6.25.17 LaneUsed		Possible Choices: • x1 • x2 • x3 • x4 Default Value: • x1
2.4.6.25.18 MCLK		Default Value: • 19200000 Numeric Range: Minimum Value: 0 Maximum Value: 0
2.4.6.25.19 EEPROM Type	EEPROM Type 0x00: ROM_NONE 0x01: ROM_OTP 0x02: ROM_EEPROM_16K_64 0x03: ROM_EEPROM_16K_16 0x04: ROM_OTP_ACPI_ACPI 0x05: ROM_ACPI 0x06: ROM_EEPROM_BRCA016GWZ	Possible Choices: • ROM_NONE • ROM_OTP • ROM_EEPROM_16K_64 • ROM_EEPROM_16K_16 • ROM_OTP_ACPI_ACPI • ROM_ACPI • ROM_EEPROM_BRCA016

	0x07: ROM_EEPROM_24AA32 0x08: ROM_EEPROM_CAT24C08 0x09: ROM_M24C64 0x0A: ROM_DW9806B 0x10: ROM_EEPROM_CAT24C16 0x11: ROM_EEPROM_CAT24C64 0x12: ROM_EEPROM_24AA16	GWZ • ROM_EEPROM_24AA32 • ROM_EEPROM_CAT24C08 • ROM_EEPROM_M24C64 • ROM_EEPROM_DW9806B • ROM_EEPROM_CAT24C16 • ROM_EEPROM_CAT24C64 • ROM_EEPROM_24AA16 • User Custom Default Value: • ROM_NONE
2.4.6.25.20 Custom EEPROM		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.25.21 VCM Type	VCM Type 0x00: VCM_NONE 0x01: VCM_AD5823 0x02: VCM_DW9714 0x03: VCM_AD5816 0x04: VCM_DW9719 0x05: VCM_DW9718 0x06: VCM_DW9806B 0x07: VCM_WV517S 0x08: VCM_LC898122XA 0x09: VCM_LC898212AXB 0x0F: VCM_AK7371 0x10: VCM_BU64297GWZ	Possible Choices: • VCM_NONE • VCM_AD5823 • VCM_DW9714 • VCM_AD5816 • VCM_DW9719 • VCM_DW9718 • VCM_DW9806B • VCM_WV517S • VCM_LC898122XA • VCM_LC898212AXB • VCM_RESERVED1 • VCM_RESERVED2 • VCM_AK7371 • VCM_BU64297GWZ • User Custom Default Value: • VCM_NONE
2.4.6.25.22 Custom VMC		

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.25.23 Number of I2C Components		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 12
2.4.6.25.24 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C0
2.4.6.25.25 Device 0		
2.4.6.25.26 I2C Address	I2C Address	Default Value: • 54 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.27 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1

		• EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.25.28 Device 1		
2.4.6.25.29 I2C Address	I2C Address	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.30 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • VCM
2.4.6.25.31 Device 2		

2.4.6.25.32 I2C Address	I2C Address	Default Value: • 80 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.33 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM
2.4.6.25.34 Device 3		
2.4.6.25.35 I2C Address	I2C Address	Default Value: • 81 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.36 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2

		• EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT1
2.4.6.25.37 Device 4		
2.4.6.25.38 I2C Address	I2C Address	Default Value: • 82 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.39 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT2
2.4.6.25.40 Device 5		
2.4.6.25.41 I2C Address	I2C Address	

		Default Value: • 83 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.42 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT3
2.4.6.25.43 Device 6		
2.4.6.25.44 I2C Address	I2C Address	Default Value: • 84 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.45 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4

		• EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT4
2.4.6.25.46 Device 7		
2.4.6.25.47 I2C Address	I2C Address	Default Value: • 85 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.48 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT5
2.4.6.25.49 Device 8		
2.4.6.25.50 I2C Address	I2C Address	Default Value:

		• 86 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.51 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT6
2.4.6.25.52 Device 9		
2.4.6.25.53 I2C Address	I2C Address	Default Value: • 87 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.54 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6

		• EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT7
2.4.6.25.55 Device 10		
2.4.6.25.56 I2C Address	I2C Address	Default Value: • 88 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.57 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • IO Expander
2.4.6.25.58 Device 11		
2.4.6.25.59 I2C Address	I2C Address	Default Value: • 89

		Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.25.60 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Flash
2.4.6.25.61 Customize Device ID List		
2.4.6.25.62 Customize Device1 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 17 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.25.63 Customize Device2 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 18 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.25.64 Customize Device3 ID Number	Customize Device ID Number, valuce 17 - 255	

		Default Value: • 19 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.25.65 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Disabled • External • Internal PMIC Default Value: • Disabled
2.4.6.25.66 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Flash1 • Flash2 • Flash3 • Flash4 • Flash5 • Flash6 Default Value: • Flash1
2.4.6.26 Flash Options		
2.4.6.26.1 Flash4		
2.4.6.26.2 Flash Model		Possible Choices: • External - LM3643 • PMIC - WRC Default Value: • PMIC - WRC
2.4.6.26.3 Flash Mode	Select Flash Mode White LED/Warm LED/IR LED/Xeon LED	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led

		Default Value: • IR Led
2.4.6.26.4 Camera module name		
2.4.6.26.5 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C3
2.4.6.26.6 I2C Address		Default Value: • 103 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.26.7 Flash Trigger Gpio		
2.4.6.26.8 Group Pad Number		Default Value: • 3 Numeric Range: Minimum Value: 0 Maximum Value: 88
2.4.6.26.9 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S

2.4.6.26.10 Com number		Possible Choices: • COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.26.11 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.26.12 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.26.13 Flash Driver Operating Mode	Select the Flash Driver Operating Mode as Disabled , Torch or Flash	Possible Choices: • Don't flash or light up • Light with ITORCH current continuously • Flash with IFLASH current when TRIGGERed Default Value: • Don't flash or light up
2.4.6.27 Camera5		Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.4.6.28 Link4 options		
2.4.6.28.1 Camera5		
2.4.6.28.2 Sensor Model		Possible Choices: • IMX135 • OV5693 • IMX179 • OV8858 • OV2740-IVCAM • OV9728 • IMX188 • IMX208 • OV5670 • OV8865 • HM2051 • OV2742 • OV9234 • OV8856 • OV16860 • IMX362 • IMX488 • OVTI01AS • OVTI01A0 • OVTI5678 • OVTI9738 • HIMAX11B1 • OVTI01AF • OVTI13B1 • LONTIUM • User Custom Default Value: • OV5693
2.4.6.28.3 Custom HID		
2.4.6.28.4 Lanes Clock division		Possible Choices: • 4 4 2 2 • 4 4 3 1 • 4 4 4 0 • 8 0 2 2 • 8 0 3 1 • 8 0 4 0 Default Value:

		• 4 4 2 2
2.4.6.28.5 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 Default Value: • CRD-G
2.4.6.28.6 GPIO control		Possible Choices: • No Control Logic • Control Logic 1 • Control Logic 2 • Control Logic 3 • Control Logic 4 • Control Logic 5 • Control Logic 6 Default Value: • No Control Logic
2.4.6.28.7 Camera position		Possible Choices: • Front • Back Default Value: • Back
2.4.6.28.8 Flash Support		Possible Choices: • Driver default • Disabled • Enabled Default Value: • Driver default
2.4.6.28.9 Privacy LED		Possible Choices: • Driver default • ILEDA, 16mA

		• ILEDB, 2mA • ILEDB, 4mA • ILEDB, 8mA • ILEDB, 16mA Default Value: • Driver default
2.4.6.28.10 Rotation		Possible Choices: • 0 • 90 • 180 • 270 Default Value: • 0
2.4.6.28.11 PMIC Position	PMIC Position Position 1 indicates the current module is placed on the left side of the CRD-G2 card Position 2 indicates the current module is placed on the right side of the CRD-G2 card	Possible Choices: • Position 1 • Position 2 Default Value: • Position 1
2.4.6.28.12 Voltage Rail		Possible Choices: • 3 voltage rail • 2 voltage rail Default Value: • 3 voltage rail
2.4.6.28.13 PPR Value	PPR value of sensor	Default Value: • 16 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.4.6.28.14 PPR Unit	PPR unit of sensor	Default Value:

		• 10 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.28.15 Camera module name		
2.4.6.28.16 MIPI port	LinkUsed	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.4.6.28.17 LaneUsed		Possible Choices: • x1 • x2 • x3 • x4 Default Value: • x4
2.4.6.28.18 MCLK		Default Value: • 19200000 Numeric Range: Minimum Value: 0 Maximum Value: 0
2.4.6.28.19 EEPROM Type	EEPROM Type 0x00: ROM_NONE 0x01: ROM_OTP 0x02: ROM_EEPROM_16K_64 0x03: ROM_EEPROM_16K_16 0x04: ROM_OTP_ACPI_ACPI 0x05: ROM_ACPI 0x06: ROM_EEPROM_BRCA016GWZ 0x07: ROM_EEPROM_24AA32 0x08:	Possible Choices: • ROM_NONE • ROM_OTP • ROM_EEPROM_16K_64 • ROM_EEPROM_16K_16 • ROM_OTP_ACPI_ACPI • ROM_ACPI • ROM_EEPROM_BRCA016GWZ • ROM_EEPROM_24AA32

	ROM_EEPROM_CAT24C08 0x09: ROM_M24C64 0x0A: ROM_DW9806B 0x10: ROM_EEPROM_CAT24C16 0x11: ROM_EEPROM_CAT24C64 0x12: ROM_EEPROM_24AA16	• ROM_EEPROM_CAT24C08 • ROM_EEPROM_M24C64 • ROM_EEPROM_DW9806B • ROM_EEPROM_CAT24C16 • ROM_EEPROM_CAT24C64 • ROM_EEPROM_24AA16 • User Custom Default Value: • ROM_NONE
2.4.6.28.20 Custom EEPROM		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.28.21 VCM Type	VCM Type 0x00: VCM_NONE 0x01: VCM_AD5823 0x02: VCM_DW9714 0x03: VCM_AD5816 0x04: VCM_DW9719 0x05: VCM_DW9718 0x06: VCM_DW9806B 0x07: VCM_WV517S 0x08: VCM_LC898122XA 0x09: VCM_LC898212AXB 0x0F: VCM_AK7371 0x10: VCM_BU64297GWZ	Possible Choices: • VCM_NONE • VCM_AD5823 • VCM_DW9714 • VCM_AD5816 • VCM_DW9719 • VCM_DW9718 • VCM_DW9806B • VCM_WV517S • VCM_LC898122XA • VCM_LC898212AXB • VCM_RESERVED1 • VCM_RESERVED2 • VCM_AK7371 • VCM_BU64297GWZ • User Custom Default Value: • VCM_NONE
2.4.6.28.22 Custom VMC		Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.28.23 Number of I2C Components		Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 12
2.4.6.28.24 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C3
2.4.6.28.25 Device 0		
2.4.6.28.26 I2C Address	I2C Address	Default Value: • 16 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.27 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3

		• EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.28.28 Device 1		
2.4.6.28.29 I2C Address	I2C Address	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.30 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • VCM
2.4.6.28.31 Device 2		
2.4.6.28.32 I2C Address	I2C Address	

		Default Value: • 80 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.33 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM
2.4.6.28.34 Device 3		
2.4.6.28.35 I2C Address	I2C Address	Default Value: • 81 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.36 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5

		• EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT1
2.4.6.28.37 Device 4		
2.4.6.28.38 I2C Address	I2C Address	Default Value: • 82 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.39 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT2
2.4.6.28.40 Device 5		
2.4.6.28.41 I2C Address	I2C Address	Default Value: • 83

		Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.42 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT3
2.4.6.28.43 Device 6		
2.4.6.28.44 I2C Address	I2C Address	Default Value: • 84 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.45 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7

		• IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT4
2.4.6.28.46 Device 7		
2.4.6.28.47 I2C Address	I2C Address	Default Value: • 85 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.48 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT5
2.4.6.28.49 Device 8		
2.4.6.28.50 I2C Address	I2C Address	Default Value: • 86 Numeric Range:

		Minimum Value: 0 Maximum Value: 127
2.4.6.28.51 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT6
2.4.6.28.52 Device 9		
2.4.6.28.53 I2C Address	I2C Address	Default Value: • 87 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.54 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash

		• Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT7
2.4.6.28.55 Device 10		
2.4.6.28.56 I2C Address	I2C Address	Default Value: • 88 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.28.57 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • IO Expander
2.4.6.28.58 Device 11		
2.4.6.28.59 I2C Address	I2C Address	Default Value: • 89 Numeric Range: Minimum Value: 0 Maximum Value: 127

2.4.6.28.60 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Flash
2.4.6.28.61 Customize Device ID List		
2.4.6.28.62 Customize Device1 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 17 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.28.63 Customize Device2 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 18 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.28.64 Customize Device3 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 19

		Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.28.65 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Disabled • External • Internal PMIC Default Value: • Disabled
2.4.6.28.66 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Flash1 • Flash2 • Flash3 • Flash4 • Flash5 • Flash6 Default Value: • Flash1
2.4.6.29 Flash Options		
2.4.6.29.1 Flash5		
2.4.6.29.2 Flash Model		Possible Choices: • External - LM3643 • PMIC - WRC Default Value: • PMIC - WRC
2.4.6.29.3 Flash Mode	Select Flash Mode White LED/Warm LED/IR LED/Xeon LED	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled

2.4.6.29.4 Camera module name		
2.4.6.29.5 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C3
2.4.6.29.6 I2C Address		Default Value: • 103 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.29.7 Flash Trigger Gpio		
2.4.6.29.8 Group Pad Number		Default Value: • 3 Numeric Range: Minimum Value: 0 Maximum Value: 88
2.4.6.29.9 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.29.10 Com number		Possible Choices:

		• COM0 • COM1 • COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.29.11 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.29.12 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.29.13 Flash Driver Operating Mode	Select the Flash Driver Operating Mode as Disabled , Torch or Flash	Possible Choices: • Don't flash or light up • Light with ITORCH current continuously • Flash with IFLASH current when TRIGGERed Default Value: • Don't flash or light up
2.4.6.30 Camera6		Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.4.6.31 Link5 options		
2.4.6.31.1 Camera6		
2.4.6.31.2 Sensor Model		Possible Choices: • IMX135 • OV5693 • IMX179 • OV8858 • OV2740-IVCAM • OV9728 • IMX188 • IMX208 • OV5670 • OV8865 • HM2051 • OV2742 • OV9234 • OV8856 • OV16860 • IMX362 • IMX488 • OVTI01AS • OVTI01A0 • OVTI5678 • OVTI9738 • HIMAX11B1 • OVTI01AF • OVTI13B1 • LONTIUM • User Custom Default Value: • OV5693
2.4.6.31.3 Custom HID		
2.4.6.31.4 Lanes Clock division		Possible Choices: • 4 4 2 2 • 4 4 3 1 • 4 4 4 0 • 8 0 2 2 • 8 0 3 1 • 8 0 4 0 Default Value: • 4 4 2 2

2.4.6.31.5 CRD Version		Possible Choices: • PTC • CRD-D • CRD-G • Kilshon-PPV • CRD-G2 Default Value: • CRD-G
2.4.6.31.6 GPIO control		Possible Choices: • No Control Logic • Control Logic 1 • Control Logic 2 • Control Logic 3 • Control Logic 4 • Control Logic 5 • Control Logic 6 Default Value: • No Control Logic
2.4.6.31.7 Camera position		Possible Choices: • Front • Back Default Value: • Back
2.4.6.31.8 Flash Support		Possible Choices: • Driver default • Disabled • Enabled Default Value: • Driver default
2.4.6.31.9 Privacy LED		Possible Choices: • Driver default • ILEDA, 16mA • ILEDB, 2mA • ILEDB, 4mA

		• ILEDB, 8mA • ILEDB, 16mA Default Value: • Driver default
2.4.6.31.10 Rotation		Possible Choices: • 0 • 90 • 180 • 270 Default Value: • 0
2.4.6.31.11 PMIC Position	PMIC Position Position 1 indicates the current module is placed on the left side of the CRD-G2 card Position 2 indicates the current module is placed on the right side of the CRD-G2 card	Possible Choices: • Position 1 • Position 2 Default Value: • Position 1
2.4.6.31.12 Voltage Rail		Possible Choices: • 3 voltage rail • 2 voltage rail Default Value: • 3 voltage rail
2.4.6.31.13 PPR Value	PPR value of sensor	Default Value: • 16 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.4.6.31.14 PPR Unit	PPR unit of sensor	Default Value: • 10

		Numeric Range: Minimum Value: 0 Maximum Value: 15
2.4.6.31.15 Camera module name		
2.4.6.31.16 MIPI port	LinkUsed	Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.4.6.31.17 LaneUsed		Possible Choices: • x1 • x2 • x3 • x4 Default Value: • x4
2.4.6.31.18 MCLK		Default Value: • 19200000 Numeric Range: Minimum Value: 0 Maximum Value: 0
2.4.6.31.19 EEPROM Type	EEPROM Type 0x00: ROM_NONE 0x01: ROM_OTP 0x02: ROM_EEPROM_16K_64 0x03: ROM_EEPROM_16K_16 0x04: ROM_OTP_ACPI_ACPI 0x05: ROM_ACPI 0x06: ROM_EEPROM_BRCA016GWZ 0x07: ROM_EEPROM_24AA32 0x08: ROM_EEPROM_CAT24C08 0x09: ROM_M24C64	Possible Choices: • ROM_NONE • ROM_OTP • ROM_EEPROM_16K_64 • ROM_EEPROM_16K_16 • ROM_OTP_ACPI_ACPI • ROM_ACPI • ROM_EEPROM_BRCA016GWZ • ROM_EEPROM_24AA32 • ROM_EEPROM_CAT24C08 • ROM_EEPROM_M24C64

	0x0A: ROM_DW9806B 0x10: ROM_EEPROM_CAT24C16 0x11: ROM_EEPROM_CAT24C64 0x12: ROM_EEPROM_24AA16	• ROM_EEPROM_DW9806B • ROM_EEPROM_CAT24C16 • ROM_EEPROM_CAT24C64 • ROM_EEPROM_24AA16 • User Custom Default Value: • ROM_NONE
2.4.6.31.20 Custom EEPROM		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 30
2.4.6.31.21 VCM Type	VCM Type 0x00: VCM_NONE 0x01: VCM_AD5823 0x02: VCM_DW9714 0x03: VCM_AD5816 0x04: VCM_DW9719 0x05: VCM_DW9718 0x06: VCM_DW9806B 0x07: VCM_WV517S 0x08: VCM_LC898122XA 0x09: VCM_LC898212AXB 0x0F: VCM_AK7371 0x10: VCM_BU64297GWZ	Possible Choices: • VCM_NONE • VCM_AD5823 • VCM_DW9714 • VCM_AD5816 • VCM_DW9719 • VCM_DW9718 • VCM_DW9806B • VCM_WV517S • VCM_LC898122XA • VCM_LC898212AXB • VCM_RESERVED1 • VCM_RESERVED2 • VCM_AK7371 • VCM_BU64297GWZ • User Custom Default Value: • VCM_NONE
2.4.6.31.22 Custom VMC		Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 30
2.4.6.31.23 Number of I2C Components		Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 12
2.4.6.31.24 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C3
2.4.6.31.25 Device 0		
2.4.6.31.26 I2C Address	I2C Address	Default Value: • 16 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.31.27 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7

		• IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Sensor
2.4.6.31.28 Device 1		
2.4.6.31.29 I2C Address	I2C Address	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.31.30 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • VCM
2.4.6.31.31 Device 2		
2.4.6.31.32 I2C Address	I2C Address	Default Value: • 80 Numeric Range:

		Minimum Value: 0 Maximum Value: 127
2.4.6.31.33 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM
2.4.6.31.34 Device 3		
2.4.6.31.35 I2C Address	I2C Address	Default Value: • 81 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.31.36 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash

		• Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT1
2.4.6.31.37 Device 4		
2.4.6.31.38 I2C Address	I2C Address	Default Value: • 82 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.31.39 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT2
2.4.6.31.40 Device 5		
2.4.6.31.41 I2C Address	I2C Address	Default Value: • 83 Numeric Range: Minimum Value: 0 Maximum Value: 127

2.4.6.31.42 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT3
2.4.6.31.43 Device 6		
2.4.6.31.44 I2C Address	I2C Address	Default Value: • 84 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.31.45 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2

		• Customize Device3 Default Value: • EEPROM_EXT4
2.4.6.31.46 Device 7		
2.4.6.31.47 I2C Address	I2C Address	Default Value: • 85 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.31.48 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT5
2.4.6.31.49 Device 8		
2.4.6.31.50 I2C Address	I2C Address	Default Value: • 86 Numeric Range: Minimum Value: 0 Maximum Value: 127

2.4.6.31.51 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • EEPROM_EXT6
2.4.6.31.52 Device 9		
2.4.6.31.53 I2C Address	I2C Address	Default Value: • 87 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.31.54 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3

		Default Value: • EEPROM_EXT7
2.4.6.31.55 Device 10		
2.4.6.31.56 I2C Address	I2C Address	Default Value: • 88 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.31.57 Device Type		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • IO Expander
2.4.6.31.58 Device 11		
2.4.6.31.59 I2C Address	I2C Address	Default Value: • 89 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.31.60 Device Type		

		Possible Choices: • Sensor • VCM • EEPROM • EEPROM_EXT1 • EEPROM_EXT2 • EEPROM_EXT3 • EEPROM_EXT4 • EEPROM_EXT5 • EEPROM_EXT6 • EEPROM_EXT7 • IO Expander • Flash • Customize Device1 • Customize Device2 • Customize Device3 Default Value: • Flash
2.4.6.31.61 Customize Device ID List		
2.4.6.31.62 Customize Device1 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 17 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.31.63 Customize Device2 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 18 Numeric Range: Minimum Value: 17 Maximum Value: 255
2.4.6.31.64 Customize Device3 ID Number	Customize Device ID Number, valuce 17 - 255	Default Value: • 19 Numeric Range: Minimum Value: 17 Maximum Value: 255

2.4.6.31.65 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Disabled • External • Internal PMIC Default Value: • Disabled
2.4.6.31.66 Flash Driver Selection	Select the Flash Driver as External or Internal PMIC	Possible Choices: • Flash1 • Flash2 • Flash3 • Flash4 • Flash5 • Flash6 Default Value: • Flash1
2.4.6.32 Flash Options		
2.4.6.32.1 Flash6		
2.4.6.32.2 Flash Model		Possible Choices: • External - LM3643 • PMIC - WRC Default Value: • PMIC - WRC
2.4.6.32.3 Flash Mode	Select Flash Mode White LED/Warm LED/IR LED/Xeon LED	Possible Choices: • Disabled • White Led • Warm Led • IR Led • Xeon Led Default Value: • Disabled
2.4.6.32.4 Camera module name		

2.4.6.32.5 I2C Channel		Possible Choices: • I2C0 • I2C1 • I2C2 • I2C3 • I2C4 • I2C5 • I2C6 • I2C7 Default Value: • I2C3
2.4.6.32.6 I2C Address		Default Value: • 103 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.4.6.32.7 Flash Trigger Gpio		
2.4.6.32.8 Group Pad Number		Default Value: • 3 Numeric Range: Minimum Value: 0 Maximum Value: 88
2.4.6.32.9 Group Number		Possible Choices: • A_B_H_S • D_E_F_V • C Default Value: • A_B_H_S
2.4.6.32.10 Com number		Possible Choices: • COM0 • COM1

		• COM3 • COM4 • COM5 Default Value: • COM4
2.4.6.32.11 Active Value		Default Value: • 1 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.32.12 Initial Value		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 1
2.4.6.32.13 Flash Driver Operating Mode	Select the Flash Driver Operating Mode as Disabled , Torch or Flash	Possible Choices: • Don't flash or light up • Light with ITORCH current continuously • Flash with IFLASH current when TRIGGERed Default Value: • Don't flash or light up
2.5 PCIE Configuration		
2.5.1 Port8xh Decode	PCI Express Port8xh Decode Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.5.2 Port8xh Decode Port#	Select PCI Express Port8xh Decode Root Port (Port Number starts from 1). User to ensure port availability	Default Value: • 1 Numeric Range: Minimum Value: 1 Maximum Value: 8
2.5.3 Compliance Test Mode	Enable when using Compliance Load Board	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.4 SOC Configuration		
2.5.5 COM-Express PCIe 4		
2.5.5.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.5.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.5.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value:

		• Disabled
2.5.5.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.5.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.5.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.5.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.5.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range:

		Minimum Value: 1 Maximum Value: 20
2.5.5.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.5.10 PCH PCIe LTR Configuration		
2.5.6 COM-Express PCIe 5		
2.5.6.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.6.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.6.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.6.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.5.6.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.6.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.6.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.6.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.6.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	

		Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.6.10 PCH PCIe LTR Configuration		
2.5.7 COM-Express PCIe 6		
2.5.7.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.7.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.7.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.7.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.5.7.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.7.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.7.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.7.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.7.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4

		Maximum Value: 20
2.5.7.10 PCH PCIe LTR Configuration		
2.5.8 IOE Configuration		
2.5.9 COM-Express PCIe 7		
2.5.9.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.9.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.9.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.9.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.9.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto

		• Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.9.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.9.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.9.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.9.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.9.10 PCH PCIe LTR Configuration		

2.5.10 COM-Express PCIe 0		
2.5.10.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.10.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.10.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.10.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.10.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5

		Default Value: • Auto
2.5.10.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.10.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.10.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.10.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.10.10 PCH PCIe LTR Configuration		
2.5.11 PCH Configuration		
2.5.12 COM-Express PCIe 1		
2.5.12.1 Connection Type	Built-In: a built-in device is connected to this rootport.	

	SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.12.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.12.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.12.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.12.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto

2.5.12.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.12.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.12.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.12.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.12.10 PCH PCIe LTR Configuration		
2.5.13 COM-Express PCIe 2		
2.5.13.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be	Possible Choices: • Built-in • Slot Default Value:

	set.	• Slot
2.5.13.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.13.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.13.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.13.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.13.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially	Default Value: • 0

	disabling the port.	Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.13.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.13.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.13.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.13.10 PCH PCIe LTR Configuration		
2.5.14 COM-Express PCIe 3		
2.5.14.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.14.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure	Possible Choices: • Disabled

	DISABLE - Disables ASPM	• L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.14.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.14.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.14.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.14.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.14.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for	

	bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.14.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.14.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.14.10 PCH PCIe LTR Configuration		
2.5.15 Internal LAN		
2.5.15.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.15.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value:

		• Disabled
2.5.15.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.15.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.15.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.15.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.15.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 7
2.5.15.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.15.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.15.10 PCH PCIe LTR Configuration		
2.5.16 IOE Configuration		
2.5.17 COM-Express PEG 8-11		
2.5.17.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.17.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.17.3 L1 Substates	PCI Express L1 Substates	

	settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.17.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.17.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.17.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.17.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7

2.5.17.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.17.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.17.10 PCH PCIe LTR Configuration		
2.5.18 Internal nVME		
2.5.18.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.18.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.18.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2

		Default Value: • Disabled
2.5.18.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.18.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.18.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.18.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.18.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10

		Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.18.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.18.10 PCH PCIe LTR Configuration		
2.5.19 COM-Express PEG 0-7		
2.5.19.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.19.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Disabled
2.5.19.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • Disabled
2.5.19.4 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.5.19.5 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.19.6 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.19.7 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.19.8 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.19.9 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for	

	this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.19.10 PCH PCIe LTR Configuration		
2.5.20 PCI Express Root Port SPB4		
2.5.20.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.20.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.20.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.20.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.5.20.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.20.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.20.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.20.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.20.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.20.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled

		• Enabled Default Value: • Enabled
2.5.20.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.20.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.20.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.20.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.20.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.20.16 PCIe Speed	Configure PCIe Speed	

		Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.20.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.20.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.20.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.20.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.20.21 Reserved Memory	Reserved Memory for this Root	

	Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.20.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.20.23 PCH PCIe LTR Configuration		
2.5.20.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.20.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.20.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.20.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of	

	PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.20.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.20.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.20.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.20.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value:

	platform PG.	• Desired Value - from BIOS option
2.5.20.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.20.33 PCIe EQ settings		
2.5.20.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.20.33.2 PCIe Gen3 HWEQ Config		
2.5.20.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.20.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use	Possible Choices: • Use presets during EQ

	coefficients during EQ process	• Use coefficients during EQ Default Value: • Use presets during EQ
2.5.20.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.20.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.20.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.20.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.9 Preset 1	Choose the target preset value	Default Value:

		• 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.14 Preset 6	Choose the target preset value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value:

		• 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value:

		• 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value:

		• 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.39 PCIe Gen4 HWEQ Config		
2.5.20.33.40 PCET Timer	Preset/Coefficient Evaluation	

	Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.20.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.20.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.20.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10

2.5.20.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.20.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.20.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.20.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.20.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.20.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.20.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.20.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.76 PCIe Gen5 HWEQ Config		
2.5.20.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.20.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ

		Default Value: • Use presets during EQ
2.5.20.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.20.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.20.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.20.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.20.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.20.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.20.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.20.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.20.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.20.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.20.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.21 PCI Express Root Port SPB4		
2.5.22 PCI Express Root Port SPB4		
2.5.23 PCI Express Root Port SPB4		
2.5.24 PCI Express Root Port SPC1		

2.5.24.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.24.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.24.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.24.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.24.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.24.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices:

		• Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.24.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.24.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.24.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.24.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.24.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value:

		• Disabled
2.5.24.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.24.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.24.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.24.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.24.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto

2.5.24.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.24.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.24.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.24.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.24.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.24.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	

		Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.24.23 PCH PCIe LTR Configuration		
2.5.24.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.24.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.24.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.24.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns

2.5.24.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.24.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.24.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.24.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.24.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.5.24.33 PCIe EQ settings		
2.5.24.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.24.33.2 PCIe Gen3 HWEQ Config		
2.5.24.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.24.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.24.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7

		Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.24.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.24.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.24.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.10 Preset 2	Choose the target preset value	Default Value: • 6

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.15 Preset 7	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.39 PCIe Gen4 HWEQ Config		
2.5.24.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms

		• 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.24.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.24.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.24.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.24.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.24.33.45 Preset 0	Choose the target preset value	

		Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.50 Preset 5	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.55 Preset 10	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.65 Post-cursor coefficient 4	Choose the target post-curosr	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor	

	coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.75 Post-cursor coefficient 9	Choose the target post-curosr	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.76 PCIe Gen5 HWEQ Config		
2.5.24.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.24.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.24.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10

2.5.24.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.24.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.24.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.24.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.24.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.24.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.24.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.24.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.24.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.24.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.25 PCI Express Root Port SPC1		
2.5.26 PCI Express Root Port SPC1		
2.5.27 PCI Express Root Port SPC1		
2.5.28 PCI Express Root Port SPC2		
2.5.28.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.28.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State	Possible Choices:

	AUTO - BIOS auto configure DISABLE - Disables ASPM	• Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.28.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.28.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.28.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.28.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.28.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices:

		• Disabled • Enabled Default Value: • Enabled
2.5.28.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.28.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.28.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.28.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.28.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.5.28.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.28.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.28.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.28.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.28.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.28.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled	

	ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.28.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.28.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.28.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.28.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.28.23 PCH PCIe LTR Configuration		
2.5.28.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices:

		• Disabled • Enabled Default Value: • Enabled
2.5.28.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.28.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.28.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.28.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.28.29 Non Snoop Latency Value	LTR Non Snoop Latency value	

	of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.28.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.28.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.28.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.28.33 PCIe EQ settings		
2.5.28.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.5.28.33.2 PCIe Gen3 HWEQ Config		
2.5.28.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.28.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.28.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.28.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range:

		Minimum Value: 0 Maximum Value: 10
2.5.28.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.28.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.28.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.28.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.28.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.28.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.28.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.28.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.39 PCIe Gen4 HWEQ Config		
2.5.28.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.28.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient	Possible Choices: • Use presets during EQ

	mode - root port will use coefficients during EQ process	• Use coefficients during EQ Default Value: • Use presets during EQ
2.5.28.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.28.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.28.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.28.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.46 Preset 1	Choose the target preset value	Default Value:

		• 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.51 Preset 6	Choose the target preset value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value:

		• 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value:

		• 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value:

		• 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.76 PCIe Gen5 HWEQ Config		
2.5.28.33.77 PCET Timer	Preset/Coefficient Evaluation	

	Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.28.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.28.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.28.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10

2.5.28.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.28.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.28.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.28.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.28.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.28.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.28.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.28.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.28.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.29 PCI Express Root Port SPC2		
2.5.30 PCI Express Root Port SPC2		
2.5.31 PCI Express Root Port SPC2		
2.5.32 PCI Express Root Port SPC3		
2.5.32.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.32.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.32.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices:

		• Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.32.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.32.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.32.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.32.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.32.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.5.32.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.32.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.32.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.32.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.32.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.32.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.5.32.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.32.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.32.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.32.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.32.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.5.32.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.32.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.32.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.32.23 PCH PCIe LTR Configuration		
2.5.32.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.32.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values.	Possible Choices: • Disabled • Manual • Auto

	Auto (default): Maintain default BIOS flow.	Default Value: • Auto
2.5.32.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.32.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.32.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.32.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.32.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns

		• 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.32.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.32.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.32.33 PCIe EQ settings		
2.5.32.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.32.33.2 PCIe Gen3 HWEQ Config		
2.5.32.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms

		• 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.32.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.32.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.32.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.32.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1

		Maximum Value: 11
2.5.32.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.32.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.32.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.32.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.32.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.32.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.32.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.39 PCIe Gen4 HWEQ Config		
2.5.32.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.32.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.32.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7

		Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.32.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.32.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.32.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.47 Preset 2	Choose the target preset value	Default Value: • 6

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.52 Preset 7	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.76 PCIe Gen5 HWEQ Config		
2.5.32.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms

		• 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.32.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.32.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.32.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.32.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.32.33.82 Preset 0	Choose the target preset value	

		Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.87 Preset 5	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.92 Preset 10	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.102 Post-cursor coefficient 4	Choose the target post-curosr	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor	

	coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.32.33.112 Post-cursor coefficient 9	Choose the target post-curosr	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.33 PCI Express Root Port SPC3		
2.5.34 PCI Express Root Port SPC3		
2.5.35 PCI Express Root Port SPC3		
2.5.36 PCI Express Root Port SPC4		
2.5.36.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.36.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.36.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.36.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.5.36.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.36.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.36.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.36.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.36.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.5.36.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.36.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.36.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.36.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.36.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.36.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.5.36.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.36.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.36.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.36.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.36.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 7
2.5.36.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.36.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.36.23 PCH PCIe LTR Configuration		
2.5.36.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.36.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.36.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range:

		Minimum Value: 0 Maximum Value: 1023
2.5.36.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.36.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.36.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.36.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.36.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected,	

	LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.36.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.36.33 PCIe EQ settings		
2.5.36.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.36.33.2 PCIe Gen3 HWEQ Config		
2.5.36.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value:

		• 3 ms
2.5.36.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.36.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.36.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.36.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.36.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.36.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.36.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.36.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.36.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.36.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.36.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.36.33.39 PCIe Gen4 HWEQ Config		
2.5.36.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.36.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.36.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.36.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4

		Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.36.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.36.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.48 Preset 3	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.53 Preset 8	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.76 PCIe Gen5 HWEQ Config		
2.5.36.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.36.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets	

	during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.36.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.36.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.36.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.36.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.83 Preset 1	Choose the target preset value	

		Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.88 Preset 6	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	

		Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	

		Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	

		Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.36.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.37 PCI Express Root Port SPC4		

2.5.38 PCI Express Root Port SPC4		
2.5.39 PCI Express Root Port SPC4		
2.5.40 PCI Express Root Port SPD1		
2.5.40.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.40.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.40.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.40.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.40.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.5.40.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.40.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.40.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.40.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.40.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.5.40.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.40.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.40.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.40.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.40.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.40.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3

		• Gen4 • Gen5 Default Value: • Auto
2.5.40.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.40.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.40.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.40.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.40.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range:

		Minimum Value: 1 Maximum Value: 20
2.5.40.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.40.23 PCH PCIe LTR Configuration		
2.5.40.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.40.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.40.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.40.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns

		• 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.40.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.40.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.40.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.40.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.40.32 P2P Support	Program P2P Support Registers	

	according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.40.33 PCIe EQ settings		
2.5.40.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.40.33.2 PCIe Gen3 HWEQ Config		
2.5.40.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.40.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ

2.5.40.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.40.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.40.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.40.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.40.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.40.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.40.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.40.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.40.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.40.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.39 PCIe Gen4 HWEQ Config		
2.5.40.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms

		• 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.40.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.40.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.40.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.40.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5

		Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.40.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.49 Preset 4	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.54 Preset 9	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.76 PCIe Gen5 HWEQ Config		
2.5.40.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.40.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.40.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1	

	of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.40.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.40.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.40.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.84 Preset 2	Choose the target preset value	

		Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.89 Preset 7	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	

		Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	

		Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.40.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.41 PCI Express Root Port SPD1		
2.5.42 PCI Express Root Port SPD1		
2.5.43 PCI Express Root Port SPD1		
2.5.44 PCI Express Root Port SPD2		
2.5.44.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be	Possible Choices: • Built-in • Slot

	set.	Default Value: • Slot
2.5.44.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.44.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.44.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.44.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.44.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5

		Default Value: • Auto
2.5.44.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.44.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.44.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.44.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.44.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.44.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.5.44.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.44.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.44.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.44.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.44.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.5.44.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.44.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.44.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.44.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.44.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20

2.5.44.23 PCH PCIe LTR Configuration		
2.5.44.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.44.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.44.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.44.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.44.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default	Possible Choices: • Disabled • Manual • Auto

	BIOS flow.	Default Value: • Auto
2.5.44.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.44.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.44.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.44.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.44.33 PCIe EQ settings		
2.5.44.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding	Possible Choices: • Disabled

	of equalization process	• Enabled Default Value: • Disabled
2.5.44.33.2 PCIe Gen3 HWEQ Config		
2.5.44.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.44.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.44.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.44.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1	

	of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.44.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.44.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.11 Preset 3	Choose the target preset value	

		Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.16 Preset 8	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.26 Post-cursor coefficient 3	Choose the target post-curosr	

	coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor	

	coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.36 Post-cursor coefficient 8	Choose the target post-curosr	

	coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.39 PCIe Gen4 HWEQ Config		
2.5.44.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value:

		• 3 ms
2.5.44.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.44.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.44.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.44.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.44.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.44.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.44.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.44.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.44.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.44.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.44.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.44.33.76 PCIe Gen5 HWEQ Config		
2.5.44.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.44.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.44.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.44.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5

		Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.44.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.44.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.85 Preset 3	Choose the target preset value	Default Value: • 9

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.90 Preset 8	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.44.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.45 PCI Express Root Port SPD2		
2.5.46 PCI Express Root Port SPD2		
2.5.47 PCI Express Root Port SPD2		
2.5.48 PCI Express Root Port SPD3		
2.5.48.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.48.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto

2.5.48.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.48.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.48.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.48.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.48.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.48.8 FER	PCI Express Device Fatal Error	

	Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.48.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.48.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.48.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.48.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.48.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.5.48.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.48.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.48.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.48.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.48.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535

2.5.48.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.48.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.48.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.48.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.48.23 PCH PCIe LTR Configuration		
2.5.48.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.5.48.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.48.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.48.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.48.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.48.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0

		Maximum Value: 1023
2.5.48.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.48.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.48.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.48.33 PCIe EQ settings		
2.5.48.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.48.33.2 PCIe Gen3 HWEQ Config		
2.5.48.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms

		• 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.48.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.48.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.48.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.48.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you	

	have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.48.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.12 Preset 4	Choose the target preset value	

		Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.17 Preset 9	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	

		Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.39 PCIe Gen4 HWEQ Config		
2.5.48.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.48.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ

2.5.48.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.48.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.48.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.48.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.48.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.48.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.48.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.48.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.48.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.48.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.76 PCIe Gen5 HWEQ Config		
2.5.48.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms

		• 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.48.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.48.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.48.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.48.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range:

		Minimum Value: 1 Maximum Value: 11
2.5.48.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.48.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.48.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.48.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.48.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.48.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.48.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.48.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.49 PCI Express Root Port SPD3		
2.5.50 PCI Express Root Port SPD3		
2.5.51 PCI Express Root Port SPD3		
2.5.52 PCI Express Root Port SPD4		
2.5.52.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.52.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.52.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2

2.5.52.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.52.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.52.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.52.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.52.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.52.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled

		• Enabled Default Value: • Enabled
2.5.52.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.52.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.52.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.52.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.52.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.52.15 Hot Plug	PCI Express Hot Plug	

	Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.52.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.52.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.52.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.52.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.52.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.52.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.52.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.52.23 PCH PCIe LTR Configuration		
2.5.52.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.52.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.52.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	

		Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.52.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.52.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.52.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.52.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value:

		• 1024 ns
2.5.52.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.52.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.52.33 PCIe EQ settings		
2.5.52.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.52.33.2 PCIe Gen3 HWEQ Config		
2.5.52.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms

		• 23 ms Default Value: • 3 ms
2.5.52.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.52.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.52.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.52.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.52.33.8 Preset 0	Choose the target preset value	Default Value: • 4

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.13 Preset 5	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.18 Preset 10	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.39 PCIe Gen4 HWEQ Config		
2.5.52.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.52.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.52.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.52.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1	

	of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.52.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.52.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.48 Preset 3	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.53 Preset 8	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	

		Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	

		Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	

		Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.76 PCIe Gen5 HWEQ Config		
2.5.52.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms

2.5.52.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.52.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.52.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.52.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.52.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.52.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.52.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.52.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.52.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.52.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.52.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.52.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.53 PCI Express Root Port SPD4		
2.5.54 PCI Express Root Port SPD4		
2.5.55 PCI Express Root Port SPD4		
2.5.56 PCI Express Root Port SPE1		
2.5.56.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.56.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.56.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.56.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.56.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled

		• Enabled Default Value: • Enabled
2.5.56.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.56.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.56.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.56.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.56.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.5.56.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.56.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.56.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.56.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.56.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.56.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2

		• Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.56.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.56.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.56.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.56.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.56.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10

		Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.56.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.56.23 PCH PCIe LTR Configuration		
2.5.56.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.56.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.56.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.56.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns

		• 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.56.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.56.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.56.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.56.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option

2.5.56.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.56.33 PCIe EQ settings		
2.5.56.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.56.33.2 PCIe Gen3 HWEQ Config		
2.5.56.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.56.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ

		Default Value: • Use presets during EQ
2.5.56.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.56.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.56.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.56.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.56.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.56.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.56.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.56.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.56.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.56.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.39 PCIe Gen4 HWEQ Config		
2.5.56.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms

		• 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.56.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.56.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.56.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.56.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The	Default Value:

	interpretation of this field depends on PCIe EQ mode	• 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.56.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.49 Preset 4	Choose the target preset value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.54 Preset 9	Choose the target preset value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value:

		• 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value:

		• 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.76 PCIe Gen5 HWEQ Config		
2.5.56.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.56.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ

2.5.56.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.56.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.56.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.56.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.56.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.56.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.56.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.56.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.56.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.56.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.56.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.57 PCI Express Root Port SPE1		
2.5.58 PCI Express Root Port SPE1		
2.5.59 PCI Express Root Port SPE1		
2.5.60 PCI Express Root Port SPE2		
2.5.60.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be	Possible Choices:

	clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	• Built-in • Slot Default Value: • Slot
2.5.60.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.60.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.60.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.60.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.60.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4

		• Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.60.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.60.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.60.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.60.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.60.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.5.60.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.60.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.60.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.60.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.60.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.60.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices:

		• Disabled • Enabled Default Value: • Enabled
2.5.60.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.60.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.60.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.60.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.60.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4

		Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.60.23 PCH PCIe LTR Configuration		
2.5.60.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.60.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.60.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.60.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.60.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override.	Possible Choices:

	Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	• Disabled • Manual • Auto Default Value: • Auto
2.5.60.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.60.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.60.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.60.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.60.33 PCIe EQ settings		

2.5.60.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.60.33.2 PCIe Gen3 HWEQ Config		
2.5.60.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.60.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.60.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0

		Maximum Value: 10
2.5.60.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.60.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.60.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.60.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.60.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.60.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.60.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.60.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0

		Maximum Value: 63
2.5.60.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.39 PCIe Gen4 HWEQ Config		
2.5.60.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms

		• 22 ms • 23 ms Default Value: • 3 ms
2.5.60.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.60.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.60.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.60.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.60.33.45 Preset 0	Choose the target preset value	Default Value: • 4

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.50 Preset 5	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.55 Preset 10	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.76 PCIe Gen5 HWEQ Config		
2.5.60.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.60.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.60.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.60.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1	

	of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.60.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.60.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.85 Preset 3	Choose the target preset value	

		Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.90 Preset 8	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.100 Post-cursor coefficient 3	Choose the target post-curosr	

	coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor	

	coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.110 Post-cursor coefficient 8	Choose the target post-curosr	

	coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.60.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.61 PCI Express Root Port SPE2		
2.5.62 PCI Express Root Port SPE2		
2.5.63 PCI Express Root Port SPE2		
2.5.64 PCI Express Root Port SPE3		
2.5.64.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.64.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1

		• L0sL1 • Auto Default Value: • Auto
2.5.64.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.64.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.64.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.64.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.64.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.5.64.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.64.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.64.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.64.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.64.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.64.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.5.64.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.64.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.64.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.64.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.64.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially	Default Value: • 0

	disabling the port.	Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.64.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.64.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.64.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.64.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.64.23 PCH PCIe LTR Configuration		
2.5.64.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.5.64.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.64.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.64.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.64.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.64.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65

		Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.64.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.64.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.64.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.64.33 PCIe EQ settings		
2.5.64.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.64.33.2 PCIe Gen3 HWEQ Config		

2.5.64.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.64.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.64.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.64.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10

2.5.64.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.64.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.64.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.64.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.64.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.64.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.64.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.64.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.39 PCIe Gen4 HWEQ Config		
2.5.64.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.64.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ

		Default Value: • Use presets during EQ
2.5.64.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.64.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.64.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.64.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.46 Preset 1	Choose the target preset value	Default Value: • 5

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.51 Preset 6	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.76 PCIe Gen5 HWEQ Config		
2.5.64.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms

		• 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.64.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.64.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.64.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.64.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries	

	to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.64.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.86 Preset 4	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.91 Preset 9	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	

		Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	

		Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.64.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.65 PCI Express Root Port SPE3		
2.5.66 PCI Express Root Port SPE3		
2.5.67 PCI Express Root Port SPE3		
2.5.68 PCI Express Root Port SPE4		
2.5.68.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.68.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.68.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2

		Default Value: • L1.1 & L1.2
2.5.68.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.68.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.68.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.68.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.68.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.5.68.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.68.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.68.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.68.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.68.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.68.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.5.68.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.68.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.68.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.68.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.68.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.5.68.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.68.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.68.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.68.23 PCH PCIe LTR Configuration		
2.5.68.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.68.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value:

		• Auto
2.5.68.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.68.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.68.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.68.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.68.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns

		• 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.68.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.68.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.68.33 PCIe EQ settings		
2.5.68.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.68.33.2 PCIe Gen3 HWEQ Config		
2.5.68.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms

		• 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.68.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.68.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.68.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.68.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11

2.5.68.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.68.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.68.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.68.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.68.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.68.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.68.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.39 PCIe Gen4 HWEQ Config		
2.5.68.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.68.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.68.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range:

		Minimum Value: 0 Maximum Value: 10
2.5.68.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.68.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.68.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.68.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.68.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.68.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.68.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.68.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.68.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.76 PCIe Gen5 HWEQ Config		
2.5.68.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms

		• 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.68.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.68.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.68.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.68.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.68.33.82 Preset 0	Choose the target preset value	Default Value:

		• 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.87 Preset 5	Choose the target preset value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.92 Preset 10	Choose the target preset value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value:

		• 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.68.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.69 PCI Express Root Port SPE4		
2.5.70 PCI Express Root Port SPE4		
2.5.71 PCI Express Root Port SPE4		
2.5.72 PCI Express Root Port SPF1		
2.5.72.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.72.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.72.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.72.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.5.72.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.72.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.72.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.72.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.72.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.72.10 CER	PCI Express Device Correctable	

	Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.72.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.72.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.72.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.72.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.72.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.5.72.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.72.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.72.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.72.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.72.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7

2.5.72.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.72.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.72.23 PCH PCIe LTR Configuration		
2.5.72.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.72.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.72.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023

2.5.72.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.72.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.72.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.72.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.72.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from

	When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	BIOS option Default Value: • Desired Value - from BIOS option
2.5.72.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.72.33 PCIe EQ settings		
2.5.72.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.72.33.2 PCIe Gen3 HWEQ Config		
2.5.72.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms

2.5.72.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.72.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.72.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.72.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.72.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.72.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.72.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.72.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.72.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.72.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.72.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.72.33.39 PCIe Gen4 HWEQ Config		
2.5.72.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.72.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.72.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.72.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range:

		Minimum Value: 0 Maximum Value: 10
2.5.72.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.72.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.72.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.72.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.72.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.72.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.72.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.72.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.76 PCIe Gen5 HWEQ Config		
2.5.72.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.72.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient	Possible Choices: • Use presets during EQ

	mode - root port will use coefficients during EQ process	• Use coefficients during EQ Default Value: • Use presets during EQ
2.5.72.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.72.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.72.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.72.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.83 Preset 1	Choose the target preset value	Default Value:

		• 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.88 Preset 6	Choose the target preset value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value:

		• 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value:

		• 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value:

		• 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.72.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.73 PCI Express Root Port SPF1		
2.5.74 PCI Express Root Port SPF1		

2.5.75 PCI Express Root Port SPF1		
2.5.76 PCI Express Root Port SPF2		
2.5.76.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.76.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.76.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.76.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.76.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.5.76.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.76.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.76.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.76.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.76.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.76.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.5.76.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.76.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.76.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.76.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.76.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5

		Default Value: • Auto
2.5.76.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.76.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.76.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.76.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.76.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20

2.5.76.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.76.23 PCH PCIe LTR Configuration		
2.5.76.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.76.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.76.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.76.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns

		Default Value: • 1024 ns
2.5.76.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.76.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.76.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.76.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.76.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.5.76.33 PCIe EQ settings		
2.5.76.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.76.33.2 PCIe Gen3 HWEQ Config		
2.5.76.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.76.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.76.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1	

	of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.76.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.76.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.76.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.10 Preset 2	Choose the target preset value	

		Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.15 Preset 7	Choose the target preset value	

		Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.20 Post-cursor coefficient 0	Choose the target post-curosr	

	coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.30 Post-cursor coefficient 5	Choose the target post-curosr	

	coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor	

	coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.39 PCIe Gen4 HWEQ Config		
2.5.76.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms

		• 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.76.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.76.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.76.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.76.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11

2.5.76.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.76.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.76.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.76.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.76.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.76.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.76.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.76 PCIe Gen5 HWEQ Config		
2.5.76.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.76.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.76.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5

		Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.76.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.76.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.76.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.84 Preset 2	Choose the target preset value	Default Value: • 6

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.89 Preset 7	Choose the target preset value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6

		Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.76.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.77 PCI Express Root Port SPF2		
2.5.78 PCI Express Root Port SPF2		
2.5.79 PCI Express Root Port SPF2		
2.5.80 PCI Express Root Port SPF3		
2.5.80.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot

2.5.80.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto
2.5.80.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.80.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.80.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.80.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto

2.5.80.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.80.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.80.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.80.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.80.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.80.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value:

		• Disabled
2.5.80.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.80.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.80.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.80.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.80.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.5.80.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.80.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.80.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.80.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.80.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.80.23 PCH PCIe LTR Configuration		

2.5.80.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.80.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.80.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.80.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.80.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto

2.5.80.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.80.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.80.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.80.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.80.33 PCIe EQ settings		
2.5.80.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.5.80.33.2 PCIe Gen3 HWEQ Config		
2.5.80.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.80.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.80.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.80.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value:

		• 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.80.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.80.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.11 Preset 3	Choose the target preset value	Default Value:

		• 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.12 Preset 4	Choose the target preset value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.16 Preset 8	Choose the target preset value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.17 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value:

		• 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value:

		• 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value:

		• 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.39 PCIe Gen4 HWEQ Config		
2.5.80.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms

2.5.80.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.80.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.80.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.80.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.80.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.80.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.80.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.80.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.80.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.80.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.80.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.80.33.76 PCIe Gen5 HWEQ Config		
2.5.80.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.80.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.80.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.80.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range:

		Minimum Value: 0 Maximum Value: 10
2.5.80.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.80.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.80.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.80.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.80.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.80.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.80.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.80.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.80.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.81 PCI Express Root Port SPF3		
2.5.82 PCI Express Root Port SPF3		
2.5.83 PCI Express Root Port SPF3		
2.5.84 PCI Express Root Port SPF4		
2.5.84.1 Connection Type	Built-In: a built-in device is connected to this rootport. SlotImplemented bit will be clear. Slot: this rootport connects to user-accessible slot. SlotImplemented bit will be set.	Possible Choices: • Built-in • Slot Default Value: • Slot
2.5.84.2 ASPM	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto configure DISABLE - Disables ASPM	Possible Choices: • Disabled • L0s • L1 • L0sL1 • Auto Default Value: • Auto

2.5.84.3 L1 Substates	PCI Express L1 Substates settings.	Possible Choices: • Disabled • L1.1 • L1.1 & L1.2 Default Value: • L1.1 & L1.2
2.5.84.4 ACS	Enable/Disable Access Control Services Extended Capability	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.84.5 PTM	Enable/Disable Precision Time Measurement	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.84.6 FOM Scoreboard Control Policy	Select the FOM Scoreboard Control Policy, when set to Auto, speed is based on TLS	Possible Choices: • Auto • Gen3 • Gen4 • Gen3/Gen4 • Gen5 Default Value: • Auto
2.5.84.7 URR	PCI Express Unsupported Request Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.84.8 FER	PCI Express Device Fatal Error Reporting Enable/Disable.	Possible Choices:

		• Disabled • Enabled Default Value: • Enabled
2.5.84.9 NFER	PCI Express Device Non-Fatal Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.84.10 CER	PCI Express Device Correctable Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.84.11 SEFE	Root PCI Express System Error on Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.84.12 SENFE	Root PCI Express System Error on Non-Fatal Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.84.13 SECE	Root PCI Express System Error on Correctable Error Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.5.84.14 PME SCI	PCI Express PME SCI Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.84.15 Hot Plug	PCI Express Hot Plug Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.84.16 PCIe Speed	Configure PCIe Speed	Possible Choices: • Auto • Gen1 • Gen2 • Gen3 • Gen4 • Gen5 Default Value: • Auto
2.5.84.17 Advanced Error Reporting	Advanced Error Reporting Enable/Disable.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.84.18 Detect Timeout	The number of milliseconds reference code will wait for link to exit Detect state for enabled ports before assuming there is no device and potentially disabling the port.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.5.84.19 Assertion on Link Down GPIOs	GPIO Assertion on Link Down	

		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.84.20 Extra Bus Reserved	Extra Bus Reserved (0-7) for bridges behind this Root Bridge.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 7
2.5.84.21 Reserved Memory	Reserved Memory for this Root Bridge (1-20) MB	Default Value: • 10 Numeric Range: Minimum Value: 1 Maximum Value: 20
2.5.84.22 Reserved I/O	Reserved I/O (4K/8K/12K/16K/20K) Range for this Root Bridge.	Default Value: • 4 Numeric Range: Minimum Value: 4 Maximum Value: 20
2.5.84.23 PCH PCIe LTR Configuration		
2.5.84.24 LTR	PCH PCIE Latency Reporting Enable/Disable	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.84.25 Snoop Latency Override	Snoop Latency Override for PCH PCIE. Disabled: Disable override.	Possible Choices:

	Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	• Disabled • Manual • Auto Default Value: • Auto
2.5.84.26 Snoop Latency Value	LTR Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.5.84.27 Snoop Latency Multiplier	LTR Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.84.28 Non Snoop Latency Override	Non Snoop Latency Override for PCH PCIE. Disabled: Disable override. Manual: Manually enter override values. Auto (default): Maintain default BIOS flow.	Possible Choices: • Disabled • Manual • Auto Default Value: • Auto
2.5.84.29 Non Snoop Latency Value	LTR Non Snoop Latency value of PCH PCIE	Default Value: • 65 Numeric Range: Minimum Value: 0 Maximum Value: 1023

2.5.84.30 Non Snoop Latency Multiplier	LTR Non Snoop Latency Multiplier of PCH PCIE	Possible Choices: • 1 ns • 32 ns • 1024 ns • 32768 ns • 1048576 ns • 33554432 ns Default Value: • 1024 ns
2.5.84.31 LTR Override Spec Complaint	By default is Desired Value. When Desired Value is selected, LTR value will be programmed with recommended value. When Spec Complaint is selected, it will program 400ns LTR value and may block platform PG.	Possible Choices: • Spec Complaint - 400ns • Desired Value - from BIOS option Default Value: • Desired Value - from BIOS option
2.5.84.32 P2P Support	Program P2P Support Registers according to setup option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.5.84.33 PCIe EQ settings		
2.5.84.33.1 PCIe EQ override	Choose your own PCIe EQ settings, only for users who have a thorough understanding of equalization process	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.5.84.33.2 PCIe Gen3 HWEQ Config		
2.5.84.33.3 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms

		• 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.84.33.4 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.84.33.5 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.84.33.6 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.84.33.7 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The	Default Value:

	interpretation of this field depends on PCIe EQ mode	• 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.84.33.8 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.9 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.10 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.11 Preset 3	Choose the target preset value	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.12 Preset 4	Choose the target preset value	Default Value:

		• 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.13 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.14 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.15 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.16 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.17 Preset 9	Choose the target preset value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.18 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.19 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.20 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.21 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.22 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value:

		• 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.23 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.24 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.25 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.26 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.27 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.28 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.29 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.30 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.31 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.32 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.33 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.34 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.35 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.36 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.37 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value:

		• 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.38 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.39 PCIe Gen4 HWEQ Config		
2.5.84.33.40 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms • 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.84.33.41 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ

2.5.84.33.42 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 7 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.84.33.43 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.84.33.44 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 11
2.5.84.33.45 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.46 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.84.33.47 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.48 Preset 3	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.49 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.50 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.51 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.84.33.52 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.53 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.54 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.55 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.56 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.84.33.57 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.58 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.59 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.60 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.61 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.84.33.62 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.63 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.64 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.65 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.66 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.84.33.67 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.68 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.69 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.70 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.71 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63

2.5.84.33.72 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.73 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.74 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.75 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.76 PCIe Gen5 HWEQ Config		
2.5.84.33.77 PCET Timer	Preset/Coefficient Evaluation Timeout - PCET Timer	Possible Choices: • 2 ms • 2.5 ms • 3 ms • 3.5 ms • 4 ms • 4.5 ms

		• 5 ms • 6 ms • 7 ms • 8 ms • 9 ms • 10 ms • 11 ms • 21 ms • 22 ms • 23 ms Default Value: • 3 ms
2.5.84.33.78 PCIe EQ mode	Choose EQ mode. Preset mode - root port will use presets during EQ process, Coefficient mode - root port will use coefficients during EQ process	Possible Choices: • Use presets during EQ • Use coefficients during EQ Default Value: • Use presets during EQ
2.5.84.33.79 EQ PH1 downstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.84.33.80 EQ PH1 upstream port transmitter preset	Choose the value of the preset that will be used during phase 1 of the equalization	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.5.84.33.81 Number of Preset/Coeff List	Select how many presets or coefficients. Please not that you have to set all of the list entries to valid values. The interpretation of this field depends on PCIe EQ mode	Default Value: • 4 Numeric Range:

		Minimum Value: 1 Maximum Value: 11
2.5.84.33.82 Preset 0	Choose the target preset value	Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.83 Preset 1	Choose the target preset value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.84 Preset 2	Choose the target preset value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.85 Preset 3	Choose the target preset value	Default Value: • 9 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.86 Preset 4	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.84.33.87 Preset 5	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.88 Preset 6	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.89 Preset 7	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.90 Preset 8	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.91 Preset 9	Choose the target preset value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.84.33.92 Preset 10	Choose the target preset value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.93 Pre-cursor coefficient 0	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.94 Post-cursor coefficient 0	Choose the target post-curosr coefficient value	Default Value: • 14 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.95 Pre-cursor coefficient 1	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.96 Post-cursor coefficient 1	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.84.33.97 Pre-cursor coefficient 2	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.98 Post-cursor coefficient 2	Choose the target post-curosr coefficient value	Default Value: • 12 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.99 Pre-cursor coefficient 3	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.100 Post-cursor coefficient 3	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.101 Pre-cursor coefficient 4	Choose the target pre-cursor coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.84.33.102 Post-cursor coefficient 4	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.103 Pre-cursor coefficient 5	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.104 Post-cursor coefficient 5	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.105 Pre-cursor coefficient 6	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.106 Post-cursor coefficient 6	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.84.33.107 Pre-cursor coefficient 7	Choose the target pre-cursor coefficient value	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.108 Post-cursor coefficient 7	Choose the target post-curosr coefficient value	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.109 Pre-cursor coefficient 8	Choose the target pre-cursor coefficient value	Default Value: • 6 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.110 Post-cursor coefficient 8	Choose the target post-curosr coefficient value	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.84.33.111 Pre-cursor coefficient 9	Choose the target pre-cursor coefficient value	Default Value: • 8 Numeric Range:

		Minimum Value: 0 Maximum Value: 63
2.5.84.33.112 Post-cursor coefficient 9	Choose the target post-curosr coefficient value	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 63
2.5.85 PCI Express Root Port SPF4		
2.5.86 PCI Express Root Port SPF4		
2.5.87 PCI Express Root Port SPF4		
2.6 PCH-IO Configuration		
2.6.1 SATA Configuration		
2.6.1.1 SATA Controller(s)	Enable/Disable SATA Device.	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.6.1.2 SATA Mode Selection	Determines how SATA controller(s) operate.	Possible Choices: • AHCI Default Value: • AHCI
2.6.1.3 SATA Test Mode	Test Mode Enable/Disable (Loop Back).	Possible Choices: • Enabled • Disabled Default Value: • Disabled
2.6.1.4 Aggressive LPM Support	Enable PCH to aggressively enter link power state.	Possible Choices:

		• Disabled • Enabled Default Value: • Enabled
2.6.1.5 Serial ATA Port 0		
2.6.1.6 Software Preserve		
2.6.1.7 Port 0	Enable or Disable SATA Port	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.8 Hot Plug	Designates this port as Hot Pluggable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.9 Configured as eSATA		
2.6.1.10 External	Marks this port as external.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.11 Mechanical Presence Switch	Controls reporting if this port has an Mechanical Presence Switch. Note: Requires hardware support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.12 Spin Up Device	If enabled for any of ports Staggerred Spin Up will be performed and only the drives which have this option enabled	Possible Choices: • Disabled

	will spin up at boot. Otherwise all drives spin up at boot.	• Enabled Default Value: • Disabled
2.6.1.13 SATA Device Type	Identify the SATA port is connected to Solid State Drive or Hard Disk Drive	Possible Choices: • Hard Disk Drive • Solid State Drive Default Value: • Hard Disk Drive
2.6.1.14 Topology	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2	Possible Choices: • Unknown • ISATA • Direct Connect • Flex • M2 Default Value: • Unknown
2.6.1.15 SATA Port 0 DevSlp	Enable/Disable SATA Port 0 DevSlp. For DevSlp to work, both hard drive and SATA port need to support DevSlp function, otherwise an unexpected behavior might happen. Please check board design before enabling it.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.16 DITO Configuration	Enable/Disable DITO Configuration	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.17 DITO Value	DITO Value	Default Value: • 625 Numeric Range:

		Minimum Value: 0 Maximum Value: 1023
2.6.1.18 DM Value	DM Value	Default Value: • 15 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.6.1.19 Serial ATA Port 1		
2.6.1.20 Software Preserve		
2.6.1.21 Port 1	Enable or Disable SATA Port	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.22 Hot Plug	Designates this port as Hot Pluggable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.23 Configured as eSATA		
2.6.1.24 External	Marks this port as external.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.25 Mechanical Presence Switch	Controls reporting if this port has an Mechanical Presence Switch. Note: Requires hardware	Possible Choices: • Disabled • Enabled

	support.	Default Value: • Enabled
2.6.1.26 Spin Up Device	If enabled for any of ports Staggerred Spin Up will be performed and only the drives which have this option enabled will spin up at boot. Otherwise all drives spin up at boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.27 SATA Device Type	Identify the SATA port is connected to Solid State Drive or Hard Disk Drive	Possible Choices: • Hard Disk Drive • Solid State Drive Default Value: • Hard Disk Drive
2.6.1.28 Topology	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2	Possible Choices: • Unknown • ISATA • Direct Connect • Flex • M2 Default Value: • Unknown
2.6.1.29 SATA Port 1 DevSlp	Enable/Disable SATA Port 1 DevSlp. For DevSlp to work, both hard drive and SATA port need to support DevSlp function, otherwise an unexpected behavior might happen. Please check board design before enabling it.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.30 DITO Configuration	Enable/Disable DITO Configuration	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.6.1.31 DITO Value	DITO Value	Default Value: • 625 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.6.1.32 DM Value	DM Value	Default Value: • 15 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.6.1.33 Serial ATA Port 2		
2.6.1.34 Software Preserve		
2.6.1.35 Port 2	Enable or Disable SATA Port	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.36 Hot Plug	Designates this port as Hot Pluggable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.37 Configured as eSATA		
2.6.1.38 External	Marks this port as external.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.6.1.39 Mechanical Presence Switch	Controls reporting if this port has an Mechanical Presence Switch. Note: Requires hardware support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.40 Spin Up Device	If enabled for any of ports Staggerred Spin Up will be performed and only the drives which have this option enabled will spin up at boot. Otherwise all drives spin up at boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.41 SATA Device Type	Identify the SATA port is connected to Solid State Drive or Hard Disk Drive	Possible Choices: • Hard Disk Drive • Solid State Drive Default Value: • Hard Disk Drive
2.6.1.42 Topology	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2	Possible Choices: • Unknown • ISATA • Direct Connect • Flex • M2 Default Value: • Unknown
2.6.1.43 SATA Port 2 DevSlp	Enable/Disable SATA Port 2 DevSlp. For DevSlp to work, both hard drive and SATA port need to support DevSlp function, otherwise an unexpected behavior might happen. Please check board design before enabling it.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.44 DITO Configuration	Enable/Disable DITO	

	Configuration	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.45 DITO Value	DITO Value	Default Value: • 625 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.6.1.46 DM Value	DM Value	Default Value: • 15 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.6.1.47 Serial ATA Port 3		
2.6.1.48 Software Preserve		
2.6.1.49 Port 3	Enable or Disable SATA Port	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.50 Hot Plug	Designates this port as Hot Pluggable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.51 Configured as eSATA		

2.6.1.52 External	Marks this port as external.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.53 Mechanical Presence Switch	Controls reporting if this port has an Mechanical Presence Switch. Note: Requires hardware support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.54 Spin Up Device	If enabled for any of ports Staggerred Spin Up will be performed and only the drives which have this option enabled will spin up at boot. Otherwise all drives spin up at boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.55 SATA Device Type	Identify the SATA port is connected to Solid State Drive or Hard Disk Drive	Possible Choices: • Hard Disk Drive • Solid State Drive Default Value: • Hard Disk Drive
2.6.1.56 Topology	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2	Possible Choices: • Unknown • ISATA • Direct Connect • Flex • M2 Default Value: • Unknown
2.6.1.57 SATA Port 3 DevSlp	Enable/Disable SATA Port 3 DevSlp. For DevSlp to work, both hard drive and SATA port	Possible Choices: • Disabled

	need to support DevSlp function, otherwise an unexpected behavior might happen. Please check board design before enabling it.	• Enabled Default Value: • Disabled
2.6.1.58 DITO Configuration	Enable/Disable DITO Configuration	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.59 DITO Value	DITO Value	Default Value: • 625 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.6.1.60 DM Value	DM Value	Default Value: • 15 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.6.1.61 Serial ATA Port 4		
2.6.1.62 Software Preserve		
2.6.1.63 Port 4	Enable or Disable SATA Port	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.64 Hot Plug	Designates this port as Hot Pluggable.	Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.6.1.65 Configured as eSATA		
2.6.1.66 External	Marks this port as external.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.67 Mechanical Presence Switch	Controls reporting if this port has an Mechanical Presence Switch. Note: Requires hardware support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.68 Spin Up Device	If enabled for any of ports Staggerred Spin Up will be performed and only the drives which have this option enabled will spin up at boot. Otherwise all drives spin up at boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.69 SATA Device Type	Identify the SATA port is connected to Solid State Drive or Hard Disk Drive	Possible Choices: • Hard Disk Drive • Solid State Drive Default Value: • Hard Disk Drive
2.6.1.70 Topology	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2	Possible Choices: • Unknown • ISATA • Direct Connect • Flex • M2

		Default Value: • Unknown
2.6.1.71 SATA Port 4 DevSlp	Enable/Disable SATA Port 4 DevSlp. For DevSlp to work, both hard drive and SATA port need to support DevSlp function, otherwise an unexpected behavior might happen. Please check board design before enabling it.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.72 DITO Configuration	Enable/Disable DITO Configuration	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.73 DITO Value	DITO Value	Default Value: • 625 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.6.1.74 DM Value	DM Value	Default Value: • 15 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.6.1.75 Serial ATA Port 5		
2.6.1.76 Software Preserve		
2.6.1.77 Port 5	Enable or Disable SATA Port	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.6.1.78 Hot Plug	Designates this port as Hot Pluggable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.79 Configured as eSATA		
2.6.1.80 External	Marks this port as external.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.81 Mechanical Presence Switch	Controls reporting if this port has an Mechanical Presence Switch. Note: Requires hardware support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.82 Spin Up Device	If enabled for any of ports Staggerred Spin Up will be performed and only the drives which have this option enabled will spin up at boot. Otherwise all drives spin up at boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.83 SATA Device Type	Identify the SATA port is connected to Solid State Drive or Hard Disk Drive	Possible Choices: • Hard Disk Drive • Solid State Drive Default Value: • Hard Disk Drive

2.6.1.84 Topology	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2	Possible Choices: • Unknown • ISATA • Direct Connect • Flex • M2 Default Value: • Unknown
2.6.1.85 SATA Port 5 DevSlp	Enable/Disable SATA Port 5 DevSlp. For DevSlp to work, both hard drive and SATA port need to support DevSlp function, otherwise an unexpected behavior might happen. Please check board design before enabling it.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.86 DITO Configuration	Enable/Disable DITO Configuration	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.87 DITO Value	DITO Value	Default Value: • 625 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.6.1.88 DM Value	DM Value	Default Value: • 15 Numeric Range: Minimum Value: 0 Maximum Value: 15

2.6.1.89 Serial ATA Port 6		
2.6.1.90 Software Preserve		
2.6.1.91 Port 6	Enable or Disable SATA Port	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.92 Hot Plug	Designates this port as Hot Pluggable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.93 Configured as eSATA		
2.6.1.94 External	Marks this port as external.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.95 Mechanical Presence Switch	Controls reporting if this port has an Mechanical Presence Switch. Note: Requires hardware support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.96 Spin Up Device	If enabled for any of ports Staggerred Spin Up will be performed and only the drives which have this option enabled will spin up at boot. Otherwise all drives spin up at boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.6.1.97 SATA Device Type	Identify the SATA port is connected to Solid State Drive or Hard Disk Drive	Possible Choices: • Hard Disk Drive • Solid State Drive Default Value: • Hard Disk Drive
2.6.1.98 Topology	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2	Possible Choices: • Unknown • ISATA • Direct Connect • Flex • M2 Default Value: • Unknown
2.6.1.99 SATA Port 6 DevSlp	Enable/Disable SATA Port 6 DevSlp. For DevSlp to work, both hard drive and SATA port need to support DevSlp function, otherwise an unexpected behavior might happen. Please check board design before enabling it.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.100 DITO Configuration	Enable/Disable DITO Configuration	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.101 DITO Value	DITO Value	Default Value: • 625 Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.6.1.102 DM Value	DM Value	

		Default Value: • 15 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.6.1.103 Serial ATA Port 7		
2.6.1.104 Software Preserve		
2.6.1.105 Port 7	Enable or Disable SATA Port	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.106 Hot Plug	Designates this port as Hot Pluggable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.107 Configured as eSATA		
2.6.1.108 External	Marks this port as external.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.109 Mechanical Presence Switch	Controls reporting if this port has an Mechanical Presence Switch. Note: Requires hardware support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.1.110 Spin Up Device	If enabled for any of ports Staggerred Spin Up will be	

	performed and only the drives which have this option enabled will spin up at boot. Otherwise all drives spin up at boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.111 SATA Device Type	Identify the SATA port is connected to Solid State Drive or Hard Disk Drive	Possible Choices: • Hard Disk Drive • Solid State Drive Default Value: • Hard Disk Drive
2.6.1.112 Topology	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2	Possible Choices: • Unknown • ISATA • Direct Connect • Flex • M2 Default Value: • Unknown
2.6.1.113 SATA Port 7 DevSlp	Enable/Disable SATA Port 7 DevSlp. For DevSlp to work, both hard drive and SATA port need to support DevSlp function, otherwise an unexpected behavior might happen. Please check board design before enabling it.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.114 DITO Configuration	Enable/Disable DITO Configuration	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.1.115 DITO Value	DITO Value	Default Value: • 625

		Numeric Range: Minimum Value: 0 Maximum Value: 1023
2.6.1.116 DM Value	DM Value	Default Value: • 15 Numeric Range: Minimum Value: 0 Maximum Value: 15
2.6.2 USB Configuration		
2.6.2.1 xDCI Support	Enable/Disable xDCI (USB OTG Device).	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.2 USB PDO Programming	Select 'Enabled' if Port Disable Override functionality is used.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.3 USB Overcurrent	Select 'Disabled' for pin-based debug. If pin-based debug is enabled but USB overcurrent is not disabled, USB DbC does not work.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.4 USB Overcurrent Lock	Select 'Enabled' if Overcurrent functionality is used. Enabling this will make xHCI controller consume the Overcurrent mapping data	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.6.2.5 USB Audio Offload	Enable/Disable USB Audio Offload functionality	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.6 Enable HSII on xHCI	Enable/Disable HSII feature. It may lead to increased power consumption.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.7 USB3.1 Port 0 Speed Selection	USB3.1 Speed selection; Gen1 or Gen2	Possible Choices: • Gen 2 • Gen 1 Default Value: • Gen 2
2.6.2.8 USB3.1 Port 1 Speed Selection	USB3.1 Speed selection; Gen1 or Gen2	Possible Choices: • Gen 2 • Gen 1 Default Value: • Gen 2
2.6.2.9 USB3.1 Port 2 Speed Selection	USB3.1 Speed selection; Gen1 or Gen2	Possible Choices: • Gen 2 • Gen 1 Default Value: • Gen 2
2.6.2.10 USB3.1 Port 3 Speed Selection	USB3.1 Speed selection; Gen1 or Gen2	Possible Choices: • Gen 2 • Gen 1

		Default Value: • Gen 2
2.6.2.11 USB3.1 Port 4 Speed Selection	USB3.1 Speed selection; Gen1 or Gen2	Possible Choices: • Gen 2 • Gen 1 Default Value: • Gen 2
2.6.2.12 USB3.1 Port 5 Speed Selection	USB3.1 Speed selection; Gen1 or Gen2	Possible Choices: • Gen 2 • Gen 1 Default Value: • Gen 2
2.6.2.13 USB3.1 Port 6 Speed Selection	USB3.1 Speed selection; Gen1 or Gen2	Possible Choices: • Gen 2 • Gen 1 Default Value: • Gen 2
2.6.2.14 USB3.1 Port 7 Speed Selection	USB3.1 Speed selection; Gen1 or Gen2	Possible Choices: • Gen 2 • Gen 1 Default Value: • Gen 2
2.6.2.15 USB3.1 Port 8 Speed Selection	USB3.1 Speed selection; Gen1 or Gen2	Possible Choices: • Gen 2 • Gen 1 Default Value: • Gen 2
2.6.2.16 USB3.1 Port 9 Speed Selection	USB3.1 Speed selection; Gen1 or	

	Gen2	Possible Choices: • Gen 2 • Gen 1 Default Value: • Gen 2
2.6.2.17 USB Port Disable Override	Selectively Enable/Disable the corresponding USB port from reporting a Device Connection to the controller.	Possible Choices: • Disabled • Select Per-Pin Default Value: • Disabled
2.6.2.18 USB SS Physical Connector #0	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.19 USB SS Physical Connector #1	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.20 USB SS Physical Connector #2	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.21 USB SS Physical Connector #3	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.6.2.22 USB SS Physical Connector #4	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.23 USB SS Physical Connector #5	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.24 USB SS Physical Connector #6	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.25 USB SS Physical Connector #7	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.26 USB SS Physical Connector #8	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.27 USB SS Physical Connector #9	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not	Possible Choices: • Disabled • Enabled

	be detected by BIOS or OS.	Default Value: • Enabled
2.6.2.28 USB HS Physical Connector #0	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.29 USB HS Physical Connector #1	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.30 USB HS Physical Connector #2	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.31 USB HS Physical Connector #3	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.32 USB HS Physical Connector #4	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.33 USB HS Physical Connector #5	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices	Possible Choices: • Disabled

	plug into the connector will not be detected by BIOS or OS.	• Enabled Default Value: • Enabled
2.6.2.34 USB HS Physical Connector #6	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.35 USB HS Physical Connector #7	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.36 USB HS Physical Connector #8	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.37 USB HS Physical Connector #9	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.38 USB HS Physical Connector #10	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.39 USB HS Physical Connector #11	Enable/Disable this USB Physical	

	Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.40 USB HS Physical Connector #12	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.41 USB HS Physical Connector #13	Enable/Disable this USB Physical Connector (physical port). Once disabled, any USB devices plug into the connector will not be detected by BIOS or OS.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.2.42 USB SW Device Mode Port #0	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.43 USB SW Device Mode Port #1	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.44 USB SW Device Mode Port #2	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.6.2.45 USB SW Device Mode Port #3	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.46 USB SW Device Mode Port #4	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.47 USB SW Device Mode Port #5	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.48 USB SW Device Mode Port #6	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.49 USB SW Device Mode Port #7	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.50 USB SW Device Mode Port #8	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.6.2.51 USB SW Device Mode Port #9	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.52 USB SW Device Mode Port #10	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.53 USB SW Device Mode Port #11	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.54 USB SW Device Mode Port #12	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.55 USB SW Device Mode Port #13	Enable Connector Event for device subscription.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.2.56 USB Sensor Hub	USB Sensor Hub enable/disable	Possible Choices: • Enabled

		• Disabled Default Value: • Disabled
2.6.3 Security Configuration		
2.6.3.1 RTC Memory Lock	Enable will lock bytes 38h-3Fh in the lower/upper 128-byte bank of RTC RAM	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.3.2 BIOS Lock	Enable/Disable the PCH BIOS Lock Enable feature. Required to be enabled to ensure SMM protection of flash.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.3.3 Force unlock on all GPIO pads	If Enabled BIOS will force all GPIO pads to be in unlocked state	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4 HD Audio Configuration		
2.6.4.1 HD Audio Subsystem Configuration Settings		
2.6.4.2 HD Audio	Control Detection of the HD-Audio device. Disabled = HDA will be unconditionally disabled Enabled = HDA will be unconditionally enabled.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.4.3 Audio DSP	Enable/Disable Audio DSP.	Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.6.4.4 Audio DSP Compliance Mode	Specifies DSP enabled system compliance: 1. Non-UAA (IntelSST driver support only - CC_040100) 2. UAA (HD Audio Inbox or IntelSST driver support - CC_040380) Note: NHLT (DMIC/BT/I2S configuration) is published for non-UAA only.	Possible Choices: • Non-UAA (IntelSST) • UAA (HDA Inbox/IntelSST) Default Value: • UAA (HDA Inbox/IntelSST)
2.6.4.5 HDA Link	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.4.6 SDI0	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.4.7 SDI1	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.8 DMIC #0	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only:	Possible Choices: • Disabled • Enabled

	5) HDA/SNDW0 6) SSP1/SNDW1	Default Value: • Disabled
2.6.4.9 Dmic Clock Source Select	N/A	Possible Choices: • Both • ClkA • ClkB Default Value: • ClkA
2.6.4.10 DMIC #1	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.11 Dmic Clock Source Select	N/A	Possible Choices: • Both • ClkA • ClkB Default Value: • ClkA
2.6.4.12 SSP #0	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.13 SSP #1	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.6.4.14 SSP #2	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.15 SSP #3	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.16 SSP #4	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.17 SSP #5	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.18 SNDW #0	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.19 SNDW #1	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3	Possible Choices: • Disabled • Enabled

	CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Default Value: • Disabled
2.6.4.20 SNDW #2	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.21 SNDW #3	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.22 SNDW #0 Multilane	Muxed interfaces: 1) HDA/SSP0 2) HDA[SDI1]/SSP1 3) DMIC0/SNDW3 4) DMIC1/SNDW3 CNL only: 5) HDA/SNDW0 6) SSP1/SNDW1	Possible Choices: • Disabled • 2 data lanes • 3 data lanes • 4 data lanes Default Value: • Disabled
2.6.4.23 HD Audio Advanced Configuration		
2.6.4.23.1 HD Audio Subsystem Advanced Configuration Settings		
2.6.4.23.2 iDisplay Audio Disconnect	Disconnects SDI2 signal to hide/disable iDisplay Audio Codec.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.23.3 Codec Sx Wake Capability	Capability to detect wake initiated by a codec in Sx (eg by modem codec)	Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.6.4.23.4 PME Enable	Enables PME wake of HD Audio controller during POST.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.23.5 Statically Switchable BCLK Clock Frequency Configuration:		
2.6.4.23.6 HD Audio Link Frequency	Selects HD Audio Link frequency. Applicable only if HDA codec supports selected frequency.	Possible Choices: • 6 MHz • 12 MHz • 24 MHz Default Value: • 24 MHz
2.6.4.23.7 iDisplay Audio Link Frequency	Selects iDisplay Link frequency.	Possible Choices: • 48 MHz • 96 MHz Default Value: • 96 MHz
2.6.4.23.8 iDisplay Audio Link T-Mode	Indicates whether SDI is operating in 1T, 2T (CNL) or 2T, 4T, 8T mode (ICL).	Possible Choices: • 1T Mode • 2T Mode • 4T Mode • 8T Mode • 16T Mode Default Value: • 8T Mode
2.6.4.23.9 Autonomous Clock Stop SNDW #0	Enable/Disable Autonomous Clock Stop for SoundWire LINK0	Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.6.4.23.10 Autonomous Clock Stop SNDW #1	Enable/Disable Autonomous Clock Stop for SoundWire LINK1	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.23.11 Autonomous Clock Stop SNDW #2	Enable/Disable Autonomous Clock Stop for SoundWire LINK2	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.23.12 Autonomous Clock Stop SNDW #3	Enable/Disable Autonomous Clock Stop for SoundWire LINK3	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.23.13 Data On Active Interval Select SNDW #0	Data On Active Interval Select: 1) 6 clock periods 2) 7 clock periods 3) 8 clock periods 4) 11 clock periods	Possible Choices: • 6 clock periods • 7 clock periods • 8 clock periods • 11 clock periods Default Value: • 11 clock periods
2.6.4.23.14 Data On Active Interval Select SNDW #1	Data On Active Interval Select: 1) 6 clock periods 2) 7 clock periods 3) 8 clock periods 4) 11 clock periods	Possible Choices: • 6 clock periods • 7 clock periods • 8 clock periods • 11 clock periods

		Default Value: • 11 clock periods
2.6.4.23.15 Data On Active Interval Select SNDW #2	Data On Active Interval Select: 1) 6 clock periods 2) 7 clock periods 3) 8 clock periods 4) 11 clock periods	Possible Choices: • 6 clock periods • 7 clock periods • 8 clock periods • 11 clock periods Default Value: • 11 clock periods
2.6.4.23.16 Data On Active Interval Select SNDW #3	Data On Active Interval Select: 1) 6 clock periods 2) 7 clock periods 3) 8 clock periods 4) 11 clock periods	Possible Choices: • 6 clock periods • 7 clock periods • 8 clock periods • 11 clock periods Default Value: • 11 clock periods
2.6.4.23.17 Data On Delay Select SNDW #0	Data On Delay Select: 1) 2 clock periods 2) 3 clock periods	Possible Choices: • 2 clock periods • 3 clock periods Default Value: • 3 clock periods
2.6.4.23.18 Data On Delay Select SNDW #1	Data On Delay Select: 1) 2 clock periods 2) 3 clock periods	Possible Choices: • 2 clock periods • 3 clock periods Default Value: • 3 clock periods
2.6.4.23.19 Data On Delay Select SNDW #2	Data On Delay Select: 1) 2 clock periods 2) 3 clock periods	Possible Choices: • 2 clock periods • 3 clock periods Default Value: • 3 clock periods

2.6.4.23.20 Data On Delay Select SNDW #3	Data On Delay Select: 1) 2 clock periods 2) 3 clock periods	Possible Choices: • 2 clock periods • 3 clock periods Default Value: • 3 clock periods
2.6.4.24 HD Audio DSP Features Configuration		
2.6.4.24.1 HD Audio Subsystem Features Configuration (ACPI)		
2.6.4.24.2 Audio DSP NHLT Endpoints Configuration:		
2.6.4.24.3 Clock source	Clock source for NHLT configuration. If Platform POR is selected XTAL value is determinated based on SKU.	Possible Choices: • Platform POR • 24MHz • 24.576MHz • 38.4MHz Default Value: • Platform POR
2.6.4.24.4 Dmic Mono	Enables/Disables 1 Mic Array Endpoint in NHLT ACPI table.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.5 Dmic Stereo	Enables/Disables 2 Mic Array Endpoint in NHLT ACPI table.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.4.24.6 Dmic Quad	Enables/Disables 4 Mic Array Endpoint in NHLT ACPI table.	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.6.4.24.7 Bluetooth SSP2	Enables/Disables Bluetooth SSP2 Endpoint in NHLT ACPI table.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.4.24.8 I2S Alc274	Enables/Disables I2S Endpoint for ALC274 in NHLT ACPI table.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.9 Realtek ALC5682I-VD	Enables/Disables Endpoint for Realtek ALC5682I-VD in NHLT ACPI table	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.10 Realtek ALC5682I-VS	Enables/Disables Endpoint for Realtek ALC5682I-VS in NHLT ACPI table	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.11 I2S Codec Select	Selects I2S Audio Codec support. Note: Seriallo UART0 must be disabled to enable external I2S codec (due to GPIO pin muxing).	Possible Choices: • Disabled • Realtek ALC274 • EVEREST8316 • EVEREST8326 • EVEREST8336 • Realtek ALC5682I_VD • Realtek ALC5682I_VS Default Value:

		• Disabled
2.6.4.24.12 LONTIUMI2S0	Enables/Disables I2S0 Endpoint for LONTIUM in NHLT ACPI table	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.13 LONTIUMI2S2	Enables/Disables I2S2 Endpoint for LONTIUM in NHLT ACPI table	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.14 EVEREST8316	Enables/Disables I2S Endpoint for EVEREST8316 in NHLT ACPI table	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.15 Audio DSP Feature Support:	Enables/Disables DSP Feature. Bitmask structure: [BIT0] - WoV [BIT1] - BT Sideband [BIT2] - Codec based VAD [BIT5] - BT Intel HFP [BIT6] - BT Intel A2DP	
2.6.4.24.16 WoV (Wake on Voice)	Enables/Disables DSP Feature. Bitmask structure: [BIT0] - WoV [BIT1] - BT Sideband [BIT2] - Codec based VAD [BIT5] - BT Intel HFP [BIT6] - BT Intel A2DP	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.4.24.17 Bluetooth Sideband	Enables/Disables DSP Feature. Bitmask structure: [BIT0] - WoV [BIT1] - BT Sideband	Possible Choices: • Disabled

	[BIT2] - Codec based VAD [BIT5] - BT Intel HFP [BIT6] - BT Intel A2DP	• Enabled Default Value: • Enabled
2.6.4.24.18 BT Intel HFP	Enables/Disables DSP Feature. Bitmask structure: [BIT0] - WoV [BIT1] - BT Sideband [BIT2] - Codec based VAD [BIT5] - BT Intel HFP [BIT6] - BT Intel A2DP	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.4.24.19 BT Intel A2DP	Enables/Disables DSP Feature. Bitmask structure: [BIT0] - WoV [BIT1] - BT Sideband [BIT2] - Codec based VAD [BIT5] - BT Intel HFP [BIT6] - BT Intel A2DP	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.4.24.20 BT Intel Low Energy	Enables/Disables DSP Feature. Bitmask structure: [BIT0] - WoV [BIT1] - BT Sideband [BIT2] - Codec based VAD [BIT5] - BT Intel HFP [BIT6] - BT Intel A2DP	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.4.24.21 Codec based VAD	Enables/Disables DSP Feature. Bitmask structure: [BIT0] - WoV [BIT1] - BT Sideband [BIT2] - Codec based VAD [BIT5] - BT Intel HFP [BIT6] - BT Intel A2DP	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.22 Discrete BT HCI Audio Offload Support	Enables/Disables Discrete Bluetooth HCI Audio Offload Support	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.6.4.24.23 Discrete BT HCI Audio Offload Link	Selects used SSP port for the discrete BT HCI Audio Offload	Possible Choices: • SSP #0 • SSP #1 • SSP #2 • SSP #3 • SSP #4 • SSP #5 • Disabled Default Value: • Disabled
2.6.4.24.24 ACX/SDCA	Enables/Disables DSP Feature. Bitmask structure: [BIT0] - WoV [BIT1] - BT Sideband [BIT2] - Codec based VAD [BIT5] - BT Intel HFP [BIT6] - BT Intel A2DP	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.25 ACX/SDCA speaker aggregation	Enables/Disables DSP Feature. Bitmask structure: [BIT0] - WoV [BIT1] - BT Sideband [BIT2] - Codec based VAD [BIT5] - BT Intel HFP [BIT6] - BT Intel A2DP	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.26 Audio DSP Pre/Post-Processing Module Support:	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	
2.6.4.24.27 Waves Post-process	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.28 DTS	Enables/Disables 3rd Party Processing Module Support (identified by GUID).	Possible Choices:

	WoV must be enabled as a feature first to select relevant WoV IP.	• Disabled • Enabled Default Value: • Disabled
2.6.4.24.29 IntelSST Speech	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.30 Dolby	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.31 Waves Pre-process	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.32 Audyssey	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.33 Maxim Smart AMP	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.6.4.24.34 ForteMedia SAMSoft	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.35 Sound Research IP	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.36 Conexant Pre-Process	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.37 Conexant Smart Amp	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.38 Realtek Post-Process	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.39 Realtek Smart Amp	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant	Possible Choices: • Disabled • Enabled Default Value:

	WoV IP.	• Disabled
2.6.4.24.40 Icepower IP MFX sub module	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.41 Icepower IP EFX sub module	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.42 Icepower IP SFX sub module	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.43 Voice Preprocessing	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.44 Acoustic Context Awareness (ACA)	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.45 AEC for Cirrus	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a	Possible Choices: • Disabled • Enabled

	feature first to select relevant WoV IP.	Default Value: • Disabled
2.6.4.24.46 Waves Full and Reduced for Cirrus	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.47 Custom Module 'Alpha'	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.48 'Alpha' GUID:	Input hex digit character in aabbccdd-eeff-gghh-iijj-kkllmmnnoopp format.	
2.6.4.24.49 Custom Module 'Beta'	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.50 'Beta' GUID:	Input hex digit character in aabbccdd-eeff-gghh-iijj-kkllmmnnoopp format.	
2.6.4.24.51 Custom Module 'Gamma'	Enables/Disables 3rd Party Processing Module Support (identified by GUID). WoV must be enabled as a feature first to select relevant WoV IP.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.4.24.52 'Gamma' GUID:	Input hex digit character in aabbccdd-eeff-gghh-iijj-	

	kkllmmnnoopp format.	
2.6.4.25 HD Audio Bus Controller Subsystem Id	Selects HD Audio Bus Controller Subsystem Id	Possible Choices: • Default • 72708086 • 300010EC • 300210EC • 300410EC • 300610EC • 300810EC • 300A10EC • 300C10EC • 300E10EC • 301010EC • 301210EC • 301610EC • 301810EC • 301A10EC • 301C10EC • 301E10EC • 302010EC • 302210EC • 302410EC • 302610EC • 302810EC • 302A10EC • 302C10EC • 302E10EC • 303E10EC • 304410EC • 304610EC • 304810EC • 303010EC • 0A321028 • 303C10EC • 304E10EC • 304C10EC • 305610EC • 305A10EC • 306610EC • 80860103 Default Value: • 303010EC
2.6.4.26 HDA Codec ALC256 Configuration	Option for configuring DMIC connection to ALC256.	Possible Choices: • No Dmic to codec • 4 Dmic to codec • 2 Dmic to codec

		Default Value: • No Dmic to codec
2.6.4.27 SoundWire codecs topology	Option allow to select SoundWire codecs topology. Based on connected codecs topology and seletected SSID user should select proper ACPI definitions which be exposed in OS.	Possible Choices: • Default codecs topology • Configuration 305610EC ALC711-VD1, ALC714-VC1, 2x ALC316 • 4-Star Configuration 10EC3044 • 3-Star Configuration 10EC3046 • 2-Star Configuration 10EC3048 • Portofino codecs card • Cirrus 4-speaker configuration • Cirrus 6-speaker configuration • Disabled Default Value: • Default codecs topology
2.6.5 Seriallo Configuration		
2.6.5.1 I2C0 Controller	Enables/Disables Seriallo Controller If given device is Function 0 PSF disabling is skipped. PSF default will remain and device PCI CFG Space will still be visible. This is needed to allow PCI enumerator access functions above 0 in a multifunction device. The following devices depend on each other: I2C0 and I2C1,2,3 UART0 and UART1,SPI0,1 UART2 and I2C4,5 UART 0 (00:30:00) cannot be disabled when: 1. Child device is enabled like CNVi Bluetooth (_SB.PC00.UA00.BTH0) UART 0 (00:30:00) cannot be	Possible Choices: • Disabled • Enabled Default Value: • Enabled

	enabled when: 1. I2S Audio codec is enabled (_SB.PC00.I2C0.HDAC)	
2.6.5.2 I2C1 Controller	Enables/Disables Seriallo Controller If given device is Function 0 PSF disabling is skipped. PSF default will remain and device PCI CFG Space will still be visible. This is needed to allow PCI enumerator access functions above 0 in a multifunction device. The following devices depend on each other: I2C0 and I2C1,2,3 UART0 and UART1,SPI0,1 UART2 and I2C4,5 UART 0 (00:30:00) cannot be disabled when: 1. Child device is enabled like CNVi Bluetooth (_SB.PC00.UA00.BTH0) UART 0 (00:30:00) cannot be enabled when: 1. I2S Audio codec is enabled (_SB.PC00.I2C0.HDAC)	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.5.3 GPIO IRQ Route	Route all GPIOs to one of the IRQ.	Possible Choices: • IRQ14 • IRQ15 Default Value: • IRQ14
2.6.5.4 Serial IO I2C0 Settings		
2.6.5.4.1 Connected device	Indicates what type of device is connected to this Seriallo controller 1:TouchPad 2:TouchPanel 3:Both TouchPad and TouchPanel	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.6.5.4.2 Serial IO Touch Pad Settings		
2.6.5.4.2.1 Touch Pad	Indicates what type of I2C Touch Pad is connected to this Seriallo controller	Possible Choices: • Disabled • Synaptics Precision Touchpad • Synaptics Forcepad • ALPS Precision Touchpad ClickPad • THAT Touchpad • Sensel Forcepad • Smart C Cover • Custom device Default Value: • Disabled
2.6.5.4.2.2 Touch Pad Interrupt Mode	Selects different routing for interrupts from Touch Pad	Possible Choices: • GPIO Interrupt • APIC Interrupt Default Value: • APIC Interrupt
2.6.5.4.2.3 Device's bus address	Specify parameters of custom I2C device	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.6.5.4.2.4 Device's HID address	Specify parameters of custom I2C device	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.2.5 Device's bus speed	Specify parameters of custom I2C device	Possible Choices:

		• 100kHz • 400kHz • 1MHz Default Value: • 100kHz
2.6.5.4.3 Serial IO Touch Panel Settings		
2.6.5.4.3.1 Touch Panel	Indicates what type of I2C Touch Panel is connected to this Seriallo controller	Possible Choices: • Disabled • Atmel3432 TouchPanel • Atmel2952 TouchPanel • Elan9048 TouchPanel • N-Trig/Samsung 13.3" • N-Trig/Sharp 12.5" • WACOM TouchPanel • Custom device Default Value: • Disabled
2.6.5.4.3.2 Touch Panel Interrupt Mode	Selects different routing for interrupts from Touch Panel	Possible Choices: • GPIO Interrupt • APIC Interrupt Default Value: • APIC Interrupt
2.6.5.4.3.3 Device's bus address	Specify parameters of custom I2C device	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 127
2.6.5.4.3.4 Device's HID address	Specify parameters of custom I2C device	Default Value: • 0 Numeric Range:

		Minimum Value: 0 Maximum Value: 65535
2.6.5.4.3.5 Device's bus speed	Specify parameters of custom I2C device	Possible Choices: • 100kHz • 400kHz • 1MHz Default Value: • 400kHz
2.6.5.4.4 Set Serial IO I2C #0 Speed	Select Serial IO I2C Speed - Bios only pass the speed value to OS driver through ACPI	Possible Choices: • Standard Mode • Fast Mode • Fast Plus Mode • High Speed Mode Default Value: • Fast Mode
2.6.5.4.5 Timing parameters		
2.6.5.4.6 StandardSpeed SCL High	Default: 612 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 612 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.7 StandardSpeed SCL Low	Default: 706 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 706 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.8 StandardSpeed SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC]	Default Value: • 30

	Maximum: 65535 [DEC]	Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.9 FastSpeed SCL High	Default: 110 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 110 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.10 FastSpeed SCL Low	Default: 207 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 207 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.11 FastSpeed SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.12 FastSpeedPlus SCL High	Default: 43 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 43 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.13 FastSpeedPlus SCL Low	Default: 76 [DEC] Minimum: 1 [DEC]	Default Value: • 76

	Maximum: 65535 [DEC]	Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.14 FastSpeedPlus SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.15 HighSpeed SCL High	Default: 11 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.16 HighSpeed SCL Low	Default: 22 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 22 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.17 HighSpeed SDA Hold	Default: 8 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.4.18 D0->D3 idle timeout (screen off)	Default: 200 [DEC] Minimum: 1 [DEC]	Default Value: • 200

	Maximum: 10000 [DEC]	Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.4.19 D0->D3 idle timeout (screen on)	Default: 2000 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 2000 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.4.20 Timing parameters disabled		
2.6.5.5 Serial IO I2C1 Settings		
2.6.5.5.1 Connected device	Indicates what type of device is connected to this Seriallo controller 1:TouchPad 2:TouchPanel 3:Both TouchPad and TouchPanel	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.6.5.5.2 Set Serial IO I2C #1 Speed	Select Serial IO I2C Speed - Bios only pass the speed value to OS driver through ACPI	Possible Choices: • Standard Mode • Fast Mode • Fast Plus Mode • High Speed Mode Default Value: • Fast Mode
2.6.5.5.3 Timing parameters		
2.6.5.5.4 StandardSpeed SCL High	Default: 612 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 612 Numeric Range: Minimum Value: 0

		Maximum Value: 65535
2.6.5.5.5 StandardSpeed SCL Low	Default: 706 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 706 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.5.6 StandardSpeed SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.5.7 FastSpeed SCL High	Default: 110 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 110 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.5.8 FastSpeed SCL Low	Default: 207 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 207 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.5.9 FastSpeed SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0

		Maximum Value: 65535
2.6.5.5.10 FastSpeedPlus SCL High	Default: 43 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 43 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.5.11 FastSpeedPlus SCL Low	Default: 76 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 76 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.5.12 FastSpeedPlus SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.5.13 HighSpeed SCL High	Default: 11 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.5.14 HighSpeed SCL Low	Default: 22 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 22 Numeric Range: Minimum Value: 0

		Maximum Value: 65535
2.6.5.5.15 HighSpeed SDA Hold	Default: 8 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.5.16 D0->D3 idle timeout (screen off)	Default: 200 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 200 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.5.17 D0->D3 idle timeout (screen on)	Default: 2000 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 2000 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.5.18 Timing parameters disabled		
2.6.5.6 Serial IO I2C5 Settings		
2.6.5.6.1 Connected device	Indicates what type of device is connected to this Seriallo controller 1:TouchPad 2:TouchPanel 3:Both TouchPad and TouchPanel	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.6.5.6.2 Set Serial IO I2C #5 Speed	Select Serial IO I2C Speed - Bios only pass the speed value to OS driver through ACPI	Possible Choices: • Standard Mode • Fast Mode

		• Fast Plus Mode • High Speed Mode Default Value: • Fast Mode
2.6.5.6.3 Timing parameters		
2.6.5.6.4 StandardSpeed SCL High	Default: 612 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 706 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.5 StandardSpeed SCL Low	Default: 706 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 612 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.6 StandardSpeed SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.7 FastSpeed SCL High	Default: 110 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 110 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.8 FastSpeed SCL Low	Default: 207 [DEC]	

	Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 207 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.9 FastSpeed SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.10 FastSpeedPlus SCL High	Default: 43 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 43 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.11 FastSpeedPlus SCL Low	Default: 76 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 76 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.12 FastSpeedPlus SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.13 HighSpeed SCL High	Default: 11 [DEC]	

	Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.14 HighSpeed SCL Low	Default: 22 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 22 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.15 HighSpeed SDA Hold	Default: 8 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 8 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.6.16 D0->D3 idle timeout (screen off)	Default: 200 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 200 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.6.17 D0->D3 idle timeout (screen on)	Default: 2000 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 2000 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.6.18 Timing parameters disabled		

2.6.5.7 Serial IO I2C6 Settings		
2.6.5.7.1 Timing parameters		
2.6.5.7.2 StandardSpeed SCL High	Default: 612 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 706 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.3 StandardSpeed SCL Low	Default: 706 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 612 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.4 StandardSpeed SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.5 FastSpeed SCL High	Default: 110 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 110 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.6 FastSpeed SCL Low	Default: 207 [DEC] Minimum: 1 [DEC]	Default Value: • 207 Numeric Range:

	Maximum: 65535 [DEC]	Minimum Value: 0 Maximum Value: 65535
2.6.5.7.7 FastSpeed SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.8 FastSpeedPlus SCL High	Default: 43 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 43 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.9 FastSpeedPlus SCL Low	Default: 76 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 76 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.10 FastSpeedPlus SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.11 HighSpeed SCL High	Default: 11 [DEC] Minimum: 1 [DEC] Maximum:	Default Value: • 11 Numeric Range:

	65535 [DEC]	Minimum Value: 0 Maximum Value: 65535
2.6.5.7.12 HighSpeed SCL Low	Default: 22 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 22 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.13 HighSpeed SDA Hold	Default: 8 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.7.14 D0->D3 idle timeout (screen off)	Default: 200 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 200 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.7.15 D0->D3 idle timeout (screen on)	Default: 2000 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 2000 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.7.16 Timing parameters disabled		
2.6.5.8 Serial IO I2C7 Settings		
2.6.5.8.1 Timing parameters		
2.6.5.8.2 StandardSpeed SCL High	Default: 612 [DEC]	

	Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 706 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.3 StandardSpeed SCL Low	Default: 706 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 612 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.4 StandardSpeed SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.5 FastSpeed SCL High	Default: 110 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 110 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.6 FastSpeed SCL Low	Default: 207 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 207 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.7 FastSpeed SDA Hold	Default: 30 [DEC]	

	Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.8 FastSpeedPlus SCL High	Default: 43 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 43 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.9 FastSpeedPlus SCL Low	Default: 76 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 76 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.10 FastSpeedPlus SDA Hold	Default: 30 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 30 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.11 HighSpeed SCL High	Default: 11 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 11 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.12 HighSpeed SCL Low	Default: 22 [DEC]	

	Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 22 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.13 HighSpeed SDA Hold	Default: 8 [DEC] Minimum: 1 [DEC] Maximum: 65535 [DEC]	Default Value: • 5 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.6.5.8.14 D0->D3 idle timeout (screen off)	Default: 200 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 200 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.8.15 D0->D3 idle timeout (screen on)	Default: 2000 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 2000 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.8.16 Timing parameters disabled		
2.6.5.9 Serial IO SPI0 Settings		
2.6.5.9.1 ChipSelect 0 polarity	Sets initial polarity for ChipSelect signal. Active low is with initial idle polarity of low and vice versa	Possible Choices: • Active Low • Active High Default Value: • Active High

2.6.5.9.2 ChipSelect 1 polarity	Sets initial polarity for ChipSelect signal. Active low is with initial idle polarity of low and vice versa	Possible Choices: • Active Low • Active High Default Value: • Active High
2.6.5.9.3 Delayed Rx Clock SPI0	Configure the SPI Delayed Rx Clock option: Default: 0 [DEC] Minimum: 1 [DEC] Maximum: 10 [DEC]	Possible Choices: • 0 • 1 • 2 • 3 Default Value: • 0
2.6.5.9.4 Chip Select 0	This enabled SPI device for testing purpose. This option has dependency on WITT device. If WITT device is enabled with SPI, this option will grey out.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.6.5.9.5 Chip Select 1	This enabled SPI device for testing purpose. This option has dependency on WITT device. If WITT device is enabled with SPI, this option will grey out.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.6.5.9.6 Timing parameters		
2.6.5.9.7 D0->D3 idle timeout (screen off)	Default: 200 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 200 Numeric Range: Minimum Value: 1 Maximum Value: 10000

2.6.5.9.8 D0->D3 idle timeout (screen on)	Default: 2000 [DEC] Minimum: 1 [DEC] Maximum: 10000 [DEC]	Default Value: • 2000 Numeric Range: Minimum Value: 1 Maximum Value: 10000
2.6.5.9.9 Timing parameters disabled		
2.6.6 Wake on LAN Enable	Enable/Disable integrated LAN to wake the system.	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.6.7 PCH LAN Controller		
2.6.8 Port 80h Redirection	Control where the Port 80h cycles are sent. If set to Carrier LPC Bus, disables 180-1ff range for carrier Super I/O UARTs.	Possible Choices: • Module LPC Bus • PCIE Bus • Carrier LPC Bus Default Value: • Carrier LPC Bus
2.6.9 Flash Protection Range Registers (FPRR)	Enable Flash Protection Range Registers	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7 PCH-FW Configuration		
2.7.1 None		
2.7.2 ME Firmware Version		
2.7.3 ME Firmware Mode		
2.7.4 ME Firmware Mode		

2.7.5 ME Firmware Mode		
2.7.6 ME Firmware Mode		
2.7.7 ME Firmware Mode		
2.7.8 ME Firmware Mode		
2.7.9 ME Firmware SKU		
2.7.10 ME Firmware Status 1		
2.7.11 ME Firmware Status 2		
2.7.12 ME Firmware Status 3		
2.7.13 ME Firmware Status 4		
2.7.14 ME Firmware Status 5		
2.7.15 ME Firmware Status 6		
2.7.16 ME State	When Disabled, ME will be put into ME Temporarily Disabled Mode. NOTE: Once this option is changed and saved, it is grayed out to prevent command been sent again before reset.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.17 Manageability Features State	Enable/Disable Intel(R) Manageability features. NOTE: This option disables/enables Manageability Features support in FW. To disable support platform must be in an unprovisioned state first.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.18 AMT BIOS Features	When disabled AMT BIOS Features are no longer supported and user is no longer able to access MEBx Setup. Note: This option does not disable Manageability Features in FW.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.7.19 AMT Configuration		
2.7.19.1 None		
2.7.19.2 USB Provisioning of AMT	Enable/Disable of AMT USB Provisioning.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.19.3 MAC Pass Through	Enable/Disable MAC Pass Through function.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.19.4 Dynamic Lan Switch	Allow switching AMT support from Integrated LAN to Discrete LAN.	Possible Choices: • As defined in FIT • Integrated LAN • Discrete LAN Default Value: • As defined in FIT
2.7.19.5 Activate Remote Assistance Process	Trigger CIRA boot Note: Network Access must be activated first from MEBx Setup.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.19.6 Unconfigure ME	Unconfigure ME with resetting MEBx password to default on next boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.19.7 ASF Configuration		

2.7.19.7.1 PET Progress	Enable/Disable PET Events Progress to receive PET Events.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.19.7.2 WatchDog	Enable/Disable WatchDog Timer.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.19.7.3 OS Timer	Set OS watchdog timer.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.7.19.7.4 BIOS Timer	Set BIOS watchdog timer.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 65535
2.7.19.7.5 ASF Sensors Table	Adds ASF Sensor Table into ASF! ACPI Table	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.19.8 Secure Erase Configuration		
2.7.19.8.1 Secure Erase mode	Change Secure Erase module behavior:	

	Simulated: Performs SE flow without erasing SSD Real: Erase SSD.	Possible Choices: • Simulated • Real Default Value: • Simulated
2.7.19.8.2 Force Secure Erase	Force Secure Erase on next boot	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.19.9 One Click Recovery(OCR) Configuration		
2.7.19.9.1 OCR Https Boot	Enable/Disable One Click Recovery Https Boot	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.19.9.2 OCR PBA Boot	Enable/Disable One Click Recovery PBA Boot	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.19.9.3 OCR Windows Recovery Boot	Enable/Disable One Click Recovery Windows Recovery Boot	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.19.9.4 OCR Disable Secure Boot	Allows CSME to request SecureBoot to be disabled for One Click Recovery	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.7.20 ME Unconfig on RTC Clear	When Disabled ME will not be unconfigured on RTC Clear	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.21 Core Bios Done Message	Enable/Disable Core Bios Done message sent to ME	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.22 CSE Data Resilience Support	Enable/Disable CSE Data Resilience Support	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.23 FDO Shipment State Override	Enable/Disable FDO Shipment State Override. BIOS will override soft strap setting when enabled	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.24 FDO	Enable/Disable FIDO Device Onboard	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.25 TPM Device Selection	Selects TPM device: PTT or dTPM. PTT - Enables PTT in SkuMgr dTPM 1.2 - Disables PTT	Possible Choices: • dTPM

	in SkuMgr Warning ! PTT/dTPM will be disabled and all data saved on it will be lost.	• PTT Default Value: • PTT
2.7.26 Firmware Update Configuration		
2.7.26.1 Me FW Image Re-Flash	Enable/Disable Me FW Image Re-Flash function.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.26.2 FW Update	Enable/Disable ME FW Update function.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.27 FIPS Mode		
2.7.27.1 FIPS Mode Select	FIPS Mode configuration	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.27.2 Current FIPS mode	N/A	
2.7.27.3 Crypto driver FIPS version	N/A	
2.7.28 Unique Platform Id Configuration		
2.7.28.1 OEM Platform Id		
2.7.28.2 CSME Platform Id		
2.7.28.3 Upid State	Enable/Disable Upid Feature	Possible Choices: • Disabled • Enabled Default Value:

		• Disabled
2.7.28.4 Upid OS Control State	Allows OS to enable/disable the Upid feature state	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.29 ME Debug Configuration		
2.7.29.1 HECI Timeouts	Enable/Disable HECI Send/Receive Timeouts.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.29.2 Force ME DID Init Status	Forces the DID Initialization Status value.	Possible Choices: • Disabled • 0 - Success • 1 - No Memory in Channels • 2 - Memory Init Error Default Value: • Disabled
2.7.29.3 CPU Replaced Polling Disable	Setting this option disables CPU replacement polling loop	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.29.4 HECI Message check Disable	Setting this option disables message check for Bios Boot Path when sending	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.7.29.5 MBP HOB Skip	Setting this option will skip sending Get MBP message and MBP HOB will not be created	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.29.6 HECI2 Interface Communication	Adds and Removes HECI2 Device from PCI space.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.29.7 KT Device	Enable/Disable KT Device	Possible Choices: • Platform-POR • Enabled • Disabled Default Value: • Platform-POR
2.7.29.8 End Of Post Message	Enable/Disable End of Post message sent to ME	Possible Choices: • Disabled • Send in DXE Default Value: • Send in DXE
2.7.29.9 D0I3 Setting for HECI Disable	Setting this option disables setting D0I3 bit for all HECI devices	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.29.10 MCTP Broadcast Cycle	Enable/Disable Management Component Transport Protocol Broadcast Cycle and Set PMT as Bus Owner	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.7.29.11 SMBIOS type 130 OEM capabilities		
2.7.29.11.1 BIOS Reflash Capability State	Change BIOS Reflash Capability State	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.29.11.2 BIOS Boot to Setup Capability State	Change BIOS Boot to Setup Capability State	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.29.11.3 BIOS Pause Before Booting Capability State	Change BIOS Pause Before Booting Capability State	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.29.11.4 BIOS Secure Boot Capability Exposure to FW State	Change BIOS Secure Capability Exposure State to FW. This does not affect SecureBoot as such	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.7.29.11.5 vPro TBT Dock Support	Enable/Disable vPro TBT Dock Support. Note: for the change to take effect, need to put system into G3 state then resume.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.7.30 Anti-Rollback SVN Configuration		
2.7.30.1 Minimal Allowed Anti-Rollback SVN	Minimum ARB-SVN allowed on this platform. ME FW with lower ARB-SVN will not boot.	
2.7.30.2 Executing Anti-Rollback SVN	ARB-SVN of executing ME FW	
2.7.30.3 Automatic HW-Enforced Anti-Rollback SVN	When enabled, hardware-enforced Anti-Rollback mechanism is automatically activated: once ME FW was successfully run on a platform, FW with lower ARB-SVN will be blocked from execution	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.30.4 Set HW-Enforced Anti-Rollback for Current SVN	Enable hardware-enforced Anti-Rollback mechanism for current ARB-SVN value. FW with lower ARB-SVN will be blocked from execution. The value will be restored to disable after the command is sent.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.31 OEM Key Revocation Configuration		
2.7.31.1 Automatic OEM Key Revocation	When enabled, BIOS will automatically send HECI command to revoke OEM keys.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.31.2 Invoke OEM Key Revocation	A Heci command will be send to revoke OEM key.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.7.32 Extend CSME Measurement to TPM-PCR	Enable/Disable Extend CSME Measurement to TPM-PCR[0] and AMT Config to TPM-PCR[1]	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.8 BCLK Configuration		
2.8.1 BCLK Source Config		
2.8.2 OC Watchdog Timer	When enabled, the OC watchdog timer is exposed to OS as an ACPI device. WDT HW is always used by BIOS when clock settings are changed.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.8.3 SoC BCLK PLL configuration	Configure SOC BCLK PLL state. When this PLL is ON, BCLK source for SOC-N and for CPU (unless CPU PLL is ON) will be from the SOC PLL.	Possible Choices: • PLL in HW default state • PLL ON • PLL OFF Default Value: • PLL in HW default state
2.8.4 CPU BCLK PLL configuration	Configure CPU BCLK PLL state. When this PLL is ON, BCLK source for CPU will be from the CPU PLL.	Possible Choices: • PLL in HW default state • PLL ON • PLL OFF Default Value: • PLL in HW default state
2.8.5 Current Bclk Frequency		
2.8.6 Discrete Bclk Frequency	Config Discrete Clock Frequency in MHz. Range from 80 MHz up to MAX 530 MHz.	Default Value: • 100 Numeric Range: Minimum Value: 80 Maximum Value: 530
2.8.7 Current Peg/Dmi Clk Frequency		
2.8.8 Discrete Peg/Dmi Clk Frequency	Config Peg/Dmi Clock Frequency in MHz. Range from	

	80 MHz up to MAX 200 MHz.	Default Value: • 100 Numeric Range: Minimum Value: 80 Maximum Value: 200
2.9 Battery Failure Manager		
2.9.1 Battery Failure Action	Recovery action when a backup battery failure occurs; can be: None: no action Restore Defaults: preserves password(s) Reset NVRAM: clears also password(s).	Possible Choices: • None • Restore Defaults • Reset NVRAM Default Value: • None
2.10 Trusted Computing		
2.10.1 Configuration		
2.10.2 Security Device Support	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.10.3 TPM State	Enable/Disable Security Device. NOTE: Your Computer will reboot during restart in order to change State of the Device.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.10.4 Pending operation	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.	Possible Choices: • None • TPM Clear Default Value: • None

2.10.5 Security Device Support	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.10.6 TCM State	Enable/Disable Security Device. NOTE: Your Computer will reboot during restart in order to change State of the Device.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.10.7 Pending operation	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.	Possible Choices: • None • TPM Clear Default Value: • None
2.10.8 Device Select	TPM 1.2 will restrict support to TPM 1.2 devices, TPM 2.0 will restrict support to TPM 2.0 devices, Auto will support both with the default set to TPM 2.0 devices if not found, TPM 1.2 devices will be enumerated	Possible Choices: • TPM 1.2 • TPM 2.0 • Auto Default Value: • Auto
2.10.9 Current Status Information		
2.10.10 Firmware Version:		
2.10.11 Vendor:		
2.10.12 TPM Enabled Status:	None	
2.10.13 TPM Active Status:	None	
2.10.14 TPM Owner Status:	None	
2.10.15 TCM Enabled Status:	None	
2.10.16 TCM Active Status:	None	

2.10.17 TCM Owner Status:	None	
2.11 Trusted Computing		
2.11.1 TPM 2.0 Device Found		
2.11.2 Firmware Version:		
2.11.3 Vendor:		
2.11.4 Security Device Support	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.11.5 Active PCR banks		
2.11.6 Available PCR banks		
2.11.7 SHA-1 PCR Bank	Enable or Disable SHA-1 PCR Bank	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.11.8 SHA256 PCR Bank	Enable or Disable SHA256 PCR Bank	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.11.9 SHA384 PCR Bank	Enable or Disable SHA384 PCR Bank	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.11.10 SHA512 PCR Bank	Enable or Disable SHA512 PCR Bank	Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.11.11 SM3_256 PCR Bank	Enable or Disable SM3_256 PCR Bank	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.11.12 Pending operation	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.	Possible Choices: • None • TPM Clear Default Value: • None
2.11.13 Platform Hierarchy	Enable or Disable Platform Hierarchy	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.11.14 Storage Hierarchy	Enable or Disable Storage Hierarchy	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.11.15 Endorsement Hierarchy	Enable or Disable Endorsement Hierarchy	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.11.16 Physical Presence Spec Version	Select to Tell O.S. to support PPI Spec Version 1.2 or 1.3. Note some HCK tests might not support 1.3.	Possible Choices: • 1.2 • 1.3 Default Value: • 1.3
2.11.17 TPM 2.0 UEFI Spec Version	Select the TCG2 Spec Version Support, TCG_1_2: the Compatible mode for Win8/Win10, TCG_2: Support new TCG2 protocol and event format for Win10 or later	Possible Choices: • TCG_1_2 • TCG_2 Default Value: • TCG_2
2.11.18 TPM 2.0 InterfaceType	Select the Communication Interface to TPM 20 Device.	Possible Choices: • CRB • TIS Default Value: • CRB
2.11.19 Device Select	TPM 1.2 will restrict support to TPM 1.2 devices, TPM 2.0 will restrict support to TPM 2.0 devices, Auto will support both with the default set to TPM 2.0 devices if not found, TPM 1.2 devices will be enumerated	Possible Choices: • TPM 1.2 • TPM 2.0 • Auto Default Value: • Auto
2.12 Trusted Computing		
2.12.1 Configuration		
2.12.2 Security Device Support	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.12.3 NO Security Device Found		
2.13 ACPI Settings		
2.13.1 Enable Hibernation	Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option may not be effective with some operating systems.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.13.2 ACPI Sleep State	Select the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.	Possible Choices: • Suspend Disabled • S3 (Suspend to RAM) Default Value: • S3 (Suspend to RAM)
2.14 S5 RTC Wake Settings		
2.14.1 Wake system from S5	Enable or disable System wake on alarm event.	Possible Choices: • Disabled • By Every Day • By Day of Month Default Value: • Disabled
2.14.2 Wake up hour	select 0-23 For example enter 3 for 3am and 15 for 3pm	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 23
2.14.3 Wake up minute	select 0-59 for Minute	Default Value: • 0

		Numeric Range: Minimum Value: 0 Maximum Value: 59
2.14.4 Wake up second	select 0-59 for Second	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 59
2.14.5 Day of Month	This is the help for the day field. Valid range is from 1 to 31. (Error checking will be done against month/day/year combinations that are not supported. INCREASE/REDUCE : +/-.	Default Value: • 1 Numeric Range: Minimum Value: 1 Maximum Value: 31
2.14.6 Wake up minute increase	1 - 5	Default Value: • 1 Numeric Range: Minimum Value: 1 Maximum Value: 5
2.15 UEFI Variables Protection		
2.15.1 Password protection of Runtime Variables	Control the NVRAM Runtime Variable protection through System Admin Password	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.16 Serial Port Console Redirection		
2.16.1 COM0		
2.16.2 Console Redirection		

2.16.3 Console Redirection	Console Redirection Enable or Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.4 COM0		
2.16.4.1 Console Redirection Settings		
2.16.4.2 Terminal Type	Emulation: ANSI: Extended ASCII char set. VT100: ASCII char set. VT100Plus: Extends VT100 to support color, function keys, etc. VT-UTF8: Uses UTF8 encoding to map Unicode chars onto 1 or more bytes.	Possible Choices: • VT100 • VT100Plus • VT-UTF8 • ANSI Default Value: • ANSI
2.16.4.3 Bits per second	Selects serial port transmission speed. The speed must be matched on the other side. Long or noisy lines may require lower speeds.	Possible Choices: • 9600 • 19200 • 38400 • 57600 • 115200 • 230400 • 460800 • 921600 Default Value: • 115200
2.16.4.4 Data Bits		Possible Choices: • 7 • 8 Default Value: • 8
2.16.4.5 Parity	A parity bit can be sent with the data bits to detect some transmission errors. Even: parity bit is 0 if the num of 1's in the	Possible Choices: • None

	data bits is even. Odd: parity bit is 0 if num of 1's in the data bits is odd. Mark: parity bit is always 1. Space: Parity bit is always 0. Mark and Space Parity do not allow for error detection. They can be used as an additional data bit.	• Even • Odd • Mark • Space Default Value: • None
2.16.4.6 Stop Bits	Stop bits indicate the end of a serial data packet. (A start bit indicates the beginning). The standard setting is 1 stop bit. Communication with slow devices may require more than 1 stop bit.	Possible Choices: • 1 • 2 Default Value: • 1
2.16.4.7 Flow Control	Flow control can prevent data loss from buffer overflow. When sending data, if the receiving buffers are full, a 'stop' signal can be sent to stop the data flow. Once the buffers are empty, a 'start' signal can be sent to re-start the flow. Hardware flow control uses two wires to send start/stop signals.	Possible Choices: • None • Hardware RTS/CTS Default Value: • None
2.16.4.8 VT-UTF8 Combo Key Support	Enable VT-UTF8 Combination Key Support for ANSI/VT100 terminals	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.16.4.9 Recorder Mode	With this mode enabled only text will be sent. This is to capture Terminal data.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.4.10 Resolution 100x31	Enables or disables extended terminal resolution	Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.16.4.11 Putty KeyPad	Select FunctionKey and KeyPad on Putty.	Possible Choices: • VT100 • LINUX • XTERMR6 • SCO • ESCN • VT400 Default Value: • VT100
2.16.5 COM1		
2.16.6 Console Redirection		
2.16.7 Console Redirection	Console Redirection Enable or Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.8 COM1		
2.16.8.1 Console Redirection Settings		
2.16.8.2 Terminal Type	Emulation: ANSI: Extended ASCII char set. VT100: ASCII char set. VT100Plus: Extends VT100 to support color, function keys, etc. VT-UTF8: Uses UTF8 encoding to map Unicode chars onto 1 or more bytes.	Possible Choices: • VT100 • VT100Plus • VT-UTF8 • ANSI Default Value: • ANSI
2.16.8.3 Bits per second	Selects serial port transmission speed. The speed must be matched on the other side. Long or noisy lines may require lower speeds.	Possible Choices: • 9600 • 19200 • 38400

		• 57600 • 115200 • 230400 • 460800 • 921600 Default Value: • 115200
2.16.8.4 Data Bits		Possible Choices: • 7 • 8 Default Value: • 8
2.16.8.5 Parity	A parity bit can be sent with the data bits to detect some transmission errors. Even: parity bit is 0 if the num of 1's in the data bits is even. Odd: parity bit is 0 if num of 1's in the data bits is odd. Mark: parity bit is always 1. Space: Parity bit is always 0. Mark and Space Parity do not allow for error detection. They can be used as an additional data bit.	Possible Choices: • None • Even • Odd • Mark • Space Default Value: • None
2.16.8.6 Stop Bits	Stop bits indicate the end of a serial data packet. (A start bit indicates the beginning). The standard setting is 1 stop bit. Communication with slow devices may require more than 1 stop bit.	Possible Choices: • 1 • 2 Default Value: • 1
2.16.8.7 Flow Control	Flow control can prevent data loss from buffer overflow. When sending data, if the receiving buffers are full, a 'stop' signal can be sent to stop the data flow. Once the buffers are empty, a 'start' signal can be sent to re-start the flow. Hardware flow control uses two wires to send start/stop signals.	Possible Choices: • None • Hardware RTS/CTS Default Value: • None

2.16.8.8 VT-UTF8 Combo Key Support	Enable VT-UTF8 Combination Key Support for ANSI/VT100 terminals	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.16.8.9 Recorder Mode	With this mode enabled only text will be sent. This is to capture Terminal data.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.8.10 Resolution 100x31	Enables or disables extended terminal resolution	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.8.11 Putty KeyPad	Select FunctionKey and KeyPad on Putty.	Possible Choices: • VT100 • LINUX • XTERMR6 • SCO • ESCN • VT400 Default Value: • VT100
2.16.9 COM2		
2.16.10 Console Redirection		
2.16.11 Console Redirection	Console Redirection Enable or Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.16.12 COM2		
2.16.12.1 Console Redirection Settings		
2.16.12.2 Terminal Type	Emulation: ANSI: Extended ASCII char set. VT100: ASCII char set. VT100Plus: Extends VT100 to support color, function keys, etc. VT-UTF8: Uses UTF8 encoding to map Unicode chars onto 1 or more bytes.	Possible Choices: • VT100 • VT100Plus • VT-UTF8 • ANSI Default Value: • ANSI
2.16.12.3 Bits per second	Selects serial port transmission speed. The speed must be matched on the other side. Long or noisy lines may require lower speeds.	Possible Choices: • 9600 • 19200 • 38400 • 57600 • 115200 • 230400 • 460800 • 921600 Default Value: • 115200
2.16.12.4 Data Bits		Possible Choices: • 7 • 8 Default Value: • 8
2.16.12.5 Parity	A parity bit can be sent with the data bits to detect some transmission errors. Even: parity bit is 0 if the num of 1's in the data bits is even. Odd: parity bit is 0 if num of 1's in the data bits is odd. Mark: parity bit is always 1. Space: Parity bit is always 0. Mark and Space Parity do not allow for error detection. They can be used as	Possible Choices: • None • Even • Odd • Mark • Space Default Value: • None

	an additional data bit.	
2.16.12.6 Stop Bits	Stop bits indicate the end of a serial data packet. (A start bit indicates the beginning). The standard setting is 1 stop bit. Communication with slow devices may require more than 1 stop bit.	Possible Choices: • 1 • 2 Default Value: • 1
2.16.12.7 Flow Control	Flow control can prevent data loss from buffer overflow. When sending data, if the receiving buffers are full, a 'stop' signal can be sent to stop the data flow. Once the buffers are empty, a 'start' signal can be sent to re-start the flow. Hardware flow control uses two wires to send start/stop signals.	Possible Choices: • None • Hardware RTS/CTS Default Value: • None
2.16.12.8 VT-UTF8 Combo Key Support	Enable VT-UTF8 Combination Key Support for ANSI/VT100 terminals	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.16.12.9 Recorder Mode	With this mode enabled only text will be sent. This is to capture Terminal data.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.12.10 Resolution 100x31	Enables or disables extended terminal resolution	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.12.11 Putty KeyPad	Select FunctionKey and KeyPad	

	on Putty.	Possible Choices: • VT100 • LINUX • XTERMR6 • SCO • ESCN • VT400 Default Value: • VT100
2.16.13 COM3		
2.16.14 Console Redirection		
2.16.15 Console Redirection	Console Redirection Enable or Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.16 COM3		
2.16.16.1 Console Redirection Settings		
2.16.16.2 Terminal Type	Emulation: ANSI: Extended ASCII char set. VT100: ASCII char set. VT100Plus: Extends VT100 to support color, function keys, etc. VT-UTF8: Uses UTF8 encoding to map Unicode chars onto 1 or more bytes.	Possible Choices: • VT100 • VT100Plus • VT-UTF8 • ANSI Default Value: • ANSI
2.16.16.3 Bits per second	Selects serial port transmission speed. The speed must be matched on the other side. Long or noisy lines may require lower speeds.	Possible Choices: • 9600 • 19200 • 38400 • 57600 • 115200 • 230400 • 460800 • 921600 Default Value:

		• 115200
2.16.16.4 Data Bits		Possible Choices: • 7 • 8 Default Value: • 8
2.16.16.5 Parity	A parity bit can be sent with the data bits to detect some transmission errors. Even: parity bit is 0 if the num of 1's in the data bits is even. Odd: parity bit is 0 if num of 1's in the data bits is odd. Mark: parity bit is always 1. Space: Parity bit is always 0. Mark and Space Parity do not allow for error detection. They can be used as an additional data bit.	Possible Choices: • None • Even • Odd • Mark • Space Default Value: • None
2.16.16.6 Stop Bits	Stop bits indicate the end of a serial data packet. (A start bit indicates the beginning). The standard setting is 1 stop bit. Communication with slow devices may require more than 1 stop bit.	Possible Choices: • 1 • 2 Default Value: • 1
2.16.16.7 Flow Control	Flow control can prevent data loss from buffer overflow. When sending data, if the receiving buffers are full, a 'stop' signal can be sent to stop the data flow. Once the buffers are empty, a 'start' signal can be sent to re-start the flow. Hardware flow control uses two wires to send start/stop signals.	Possible Choices: • None • Hardware RTS/CTS Default Value: • None
2.16.16.8 VT-UTF8 Combo Key Support	Enable VT-UTF8 Combination Key Support for ANSI/VT100 terminals	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.16.16.9 Recorder Mode	With this mode enabled only text will be sent. This is to capture Terminal data.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.16.10 Resolution 100x31	Enables or disables extended terminal resolution	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.16.11 Putty KeyPad	Select FunctionKey and KeyPad on Putty.	Possible Choices: • VT100 • LINUX • XTERMR6 • SCO • ESCN • VT400 Default Value: • VT100
2.16.17 Serial Port for Out-of-Band Management/		
2.16.18 Windows Emergency Management Services (EMS)		
2.16.19 Console Redirection EMS	Console Redirection Enable or Disable.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.16.20 Console Redirection Settings		
2.16.20.1 Out-of-Band Mgmt Port	Microsoft Windows Emergency Management Services (EMS)	

	allows for remote management of a Windows Server OS through a serial port.	Possible Choices: • COM0 • COM1 • COM2 • COM3 Default Value: • COM0
2.16.20.2 Terminal Type EMS	VT-UTF8 is the preferred terminal type for out-of-band management. The next best choice is VT100+ and then VT100. See above, in Console Redirection Settings page, for more Help with Terminal Type/Emulation.	Possible Choices: • VT100 • VT100Plus • VT-UTF8 • ANSI Default Value: • VT-UTF8
2.16.20.3 Bits per second EMS	Selects serial port transmission speed. The speed must be matched on the other side. Long or noisy lines may require lower speeds.	Possible Choices: • 9600 • 19200 • 57600 • 115200 Default Value: • 115200
2.16.20.4 Flow Control EMS	Flow control can prevent data loss from buffer overflow. When sending data, if the receiving buffers are full, a 'stop' signal can be sent to stop the data flow. Once the buffers are empty, a 'start' signal can be sent to re-start the flow. Hardware flow control uses two wires to send start/stop signals.	Possible Choices: • None • Hardware RTS/CTS • Software Xon/Xoff Default Value: • None
2.16.20.5 Data Bits EMS	Data Bits	
2.16.20.6 Parity EMS	A parity bit can be sent with the data bits to detect some transmission errors. Even: parity bit is 0 if the num of 1's in the data bits is even. Odd: parity bit is 0 if num of 1's in the data bits is odd. Mark: parity bit is	

	always 1. Space: Parity bit is always 0. Mark and Space Parity do not allow for error detection. They can be used as an additional data bit.	
2.16.20.7 Stop Bits EMS	Stop bits indicate the end of a serial data packet. (A start bit indicates the beginning). The standard setting is 1 stop bit. Communication with slow devices may require more than 1 stop bit.	
2.17 AMI Graphic Output Protocol Policy		
2.17.1 Unknown Device		
2.17.2 Unknown Driver		
2.17.3 Output Select	Output Interface	Possible Choices: • Unknown Device Default Value: • Unknown Device
2.17.4 Output Select	Output Interface	Possible Choices: • Unknown Device • Unknown Device Default Value: • Unknown Device
2.17.5 Output Select	Output Interface	Possible Choices: • Unknown Device • Unknown Device • Unknown Device Default Value: • Unknown Device
2.17.6 Output Select	Output Interface	Possible Choices: • Unknown Device • Unknown Device

		• Unknown Device • Unknown Device Default Value: • Unknown Device
2.17.7 Output Select	Output Interface	Possible Choices: • Unknown Device • Unknown Device • Unknown Device • Unknown Device • Unknown Device Default Value: • Unknown Device
2.17.8 Output Select	Output Interface	Possible Choices: • Unknown Device • Unknown Device • Unknown Device • Unknown Device • Unknown Device • Unknown Device Default Value: • Unknown Device
2.17.9 Output Select	Output Interface	Possible Choices: • Unknown Device • Unknown Device • Unknown Device • Unknown Device • Unknown Device • Unknown Device • Unknown Device Default Value: • Unknown Device
2.17.10 Output Select	Output Interface	Possible Choices: • Unknown Device • Unknown Device • Unknown Device • Unknown Device

		• Unknown Device • Unknown Device • Unknown Device • Unknown Device Default Value: • Unknown Device
2.17.11 Brightness Setting	Set Gop Brightness value	Default Value: • 255 Numeric Range: Minimum Value: 0 Maximum Value: 4294967295
2.17.12 BIST Enable	Starts or stops the BIST on the integrated display panel.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.18 USB Configuration		
2.18.1 USB Module Version		
2.18.2 USB Controllers:		
2.18.3 N/A		
2.18.4 USB Devices:		
2.18.5 N/A		
2.18.6 USB Support	USB Support Parameters	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.18.7 Legacy USB Support	Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will	Possible Choices: • Enabled

	keep USB devices available only for EFI applications.	• Disabled • Auto Default Value: • Disabled
2.18.8 USB 2.0 Controller Mode	Configures the USB 2.0 controller in HiSpeed (480Mbps) or FullSpeed (12Mbps).	Possible Choices: • HiSpeed • FullSpeed Default Value: • HiSpeed
2.18.9 XHCI Legacy Support	Enable/Disable XHCI Controller Legacy support.	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.18.10 XHCI Hand-off	This is a workaround for OSes without XHCI hand-off support. The XHCI ownership change should be claimed by XHCI driver.	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.18.11 EHCI Hand-off	This is a workaround for OSes without EHCI hand-off support. The EHCI ownership change should be claimed by EHCI driver.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.18.12 USB Mass Storage Driver Support	Enable/Disable USB Mass Storage Driver Support.	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.18.13 USB hardware delays and time-outs:		
2.18.14 USB transfer time-out	The time-out value for Control, Bulk, and Interrupt transfers.	Possible Choices: • 1 sec • 5 sec • 10 sec • 20 sec Default Value: • 20 sec
2.18.15 Device reset time-out	USB mass storage device Start Unit command time-out.	Possible Choices: • 10 sec • 20 sec • 30 sec • 40 sec Default Value: • 20 sec
2.18.16 Device power-up delay	Maximum time the device will take before it properly reports itself to the Host Controller. 'Auto' uses default value: for a Root port it is 100 ms, for a Hub port the delay is taken from Hub descriptor.	Possible Choices: • Auto • Manual Default Value: • Auto
2.18.17 Device power-up delay in seconds	Delay range is 1..40 seconds, in one second increments	Default Value: • 5 Numeric Range: Minimum Value: 1 Maximum Value: 40
2.18.18 Mass Storage Devices:		
2.18.19 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM',	Possible Choices: • Auto • Floppy • Forced FDD

	drives with no media will be emulated according to a drive type.	• Hard Disk • CD-ROM Default Value: • Auto
2.18.20 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.21 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.22 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.23 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value:

		• Auto
2.18.24 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.25 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.26 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.27 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.28 N/A	Mass storage device emulation type. 'AUTO' enumerates	

	devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.29 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.30 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.31 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.32 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM',	Possible Choices: • Auto • Floppy • Forced FDD

	drives with no media will be emulated according to a drive type.	• Hard Disk • CD-ROM Default Value: • Auto
2.18.33 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.34 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.35 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.36 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value:

		• Auto
2.18.37 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.38 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.39 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.40 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.41 N/A	Mass storage device emulation type. 'AUTO' enumerates	

	devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.42 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.43 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.44 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.45 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM',	Possible Choices: • Auto • Floppy • Forced FDD

	drives with no media will be emulated according to a drive type.	• Hard Disk • CD-ROM Default Value: • Auto
2.18.46 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.47 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.48 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.18.49 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value:

		• Auto
2.18.50 N/A	Mass storage device emulation type. 'AUTO' enumerates devices according to their media format. Optical drives are emulated as 'CDROM', drives with no media will be emulated according to a drive type.	Possible Choices: • Auto • Floppy • Forced FDD • Hard Disk • CD-ROM Default Value: • Auto
2.19 Network Stack Configuration		
2.19.1 Network Stack	Enable/Disable UEFI Network Stack	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.19.2 IPv4 PXE Support	Enable/Disable IPv4 PXE boot support. If disabled, IPv4 PXE boot support will not be available.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.19.3 IPv4 HTTP/S Support	Enable/Disable IPv4 HTTP/HTTPS boot support. If disabled, IPv4 HTTP/HTTPS boot support will not be available.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.19.4 IPv6 PXE Support	Enable/Disable IPv6 PXE boot support. If disabled, IPv6 PXE boot support will not be available.	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.19.5 IPv6 HTTP/S Support	Enable/Disable IPv6 HTTP/HTTPS boot support. If disabled, IPv6 HTTP/HTTPS boot support will not be available.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.19.6 PXE boot wait time	Wait time in seconds to press ESC key to abort the PXE boot. Use either +/- or numeric keys to set the value.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 5
2.19.7 Media detect count	Number of times the presence of media will be checked. Use either +/- or numeric keys to set the value.	Default Value: • 1 Numeric Range: Minimum Value: 1 Maximum Value: 50
2.20 SDIO Configuration		
2.20.1 SDIO Access Mode	Auto Option: Access SD device in DMA mode if controller supports it,otherwise in PIO mode.DMA Option: Access SD device in DMA mode.PIO Option: Access SD device in PIO mode.	Possible Choices: • Auto • ADMA • SDMA • PIO Default Value: • Auto
2.20.2 Mass Storage Devices:		
2.21 Seco Embedded Features		
2.21.1 Automatic console redirection	Automatically enables console redirection when no valid video device is detected	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.21.2 RhProxy support	Enable RhProxy ACPI tables support on the platform	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.3 Linux spidev devices	Enable spidev test devices ACPI tables support on the platform. DO NOT USE IN PRODUCTION SYSTEMS	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.4 Intel Descriptor settings		
2.21.4.1 Descriptor Status:	Intel Descriptor settings. PLEASE REFER TO DOCUMENTATION BEFORE CHANGING THIS MENU OPTIONS	Possible Choices: • UNLOCKED • LOCKED Default Value: • UNLOCKED
2.21.4.2 New descriptor configuration	New descriptor configuration: PLEASE REFER TO DOCUMENTATION BEFORE CHANGING THIS!!!!	Possible Choices: • Do NOT lock descriptor • Lock descriptor PERMANENTLY Default Value: • Do NOT lock descriptor
2.21.4.3 COM-Express PCIe 0-3	Lane Configuration	Possible Choices: • x1x1x1x1 • x2x1x1 • x2x2 • x4 • Combo1 0 • Combo1 1 • Combo1 2

		• Combo1 3 • Combo1 4 • Combo1 5 • Combo1 6 • Combo1 7 • Combo2 0 • Combo2 1 • Combo2 2 • Combo2 3 • Combo2 4 • Combo2 5 • Combo2 6 • Combo2 7 • Combo4 0 • Combo4 1 • Combo4 2 • Combo4 3 • Combo4 4 • Combo4 5 • Combo4 6 • Combo4 7 Default Value: • x1x1x1x1
2.21.4.4 HSIO Lane 5	Lane Configuration	Possible Choices: • x1 • Combo1 0 • Combo1 1 • Combo1 2 • Combo1 3 • Combo1 4 • Combo1 5 • Combo1 6 • Combo1 7 Default Value: • x1
2.21.4.5 HSIO Lane 6	Lane Configuration	Possible Choices: • x1 • Combo1 0 • Combo1 1 • Combo1 2 • Combo1 3 • Combo1 4 • Combo1 5 • Combo1 6 • Combo1 7

		Default Value: • x1
2.21.4.6 HSIO Lane 7	Lane Configuration	Possible Choices: • x1 • Combo1 0 • Combo1 1 • Combo1 2 • Combo1 3 • Combo1 4 • Combo1 5 • Combo1 6 • Combo1 7 Default Value: • x1
2.21.4.7 Further strap 0	Manual settings enable or disable (default, automatically follow module HW options). WARNING: manually setting options different from HW implementation may cause the module to no longer boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.4.8 Further option 0	Help 0	Possible Choices: • Combo 0 • Combo 1 • Combo 2 • Combo 3 • Combo 4 • Combo 5 • Combo 6 • Combo 7 Default Value: • Combo 1
2.21.4.9 Further option 1	Help 1	Possible Choices: • Combo 0 • Combo 1 • Combo 2 • Combo 3 • Combo 4

		• Combo 5 • Combo 6 • Combo 7 Default Value: • Combo 0
2.21.4.10 Further option 2	Help 2	Possible Choices: • Combo 0 • Combo 1 • Combo 2 • Combo 3 • Combo 4 • Combo 5 • Combo 6 • Combo 7 Default Value: • Combo 0
2.21.4.11 Further strap 3	Manual settings enable or disable (default, automatically follow module HW options). WARNING: manually setting options different from HW implementation may cause the module to no longer boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.4.12 Further option 3	Help 3	Possible Choices: • Combo 0 • Combo 1 • Combo 2 • Combo 3 • Combo 4 • Combo 5 • Combo 6 • Combo 7 Default Value: • Combo 0
2.21.4.13 Further strap 4	Manual settings enable or disable (default, automatically follow module HW options). WARNING: manually setting options different from HW implementation may cause the	Possible Choices: • Disabled • Enabled

	module to no longer boot.	Default Value: • Disabled
2.21.4.14 Further option 4	Help 4	Possible Choices: • Combo 0 • Combo 1 • Combo 2 • Combo 3 • Combo 4 • Combo 5 • Combo 6 • Combo 7 Default Value: • Combo 0
2.21.4.15 Further strap 5	Manual settings enable or disable (default, automatically follow module HW options). WARNING: manually setting options different from HW implementation may cause the module to no longer boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.4.16 Further option 5	Help 5	Possible Choices: • Combo 0 • Combo 1 • Combo 2 • Combo 3 • Combo 4 • Combo 5 • Combo 6 • Combo 7 Default Value: • Combo 1
2.21.5 Super I/O Configuration		
2.21.5.1 Winbond/Nuvoton W83627xxx (0x2E)		
2.21.5.1.1 Keyboard Controller		Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.21.5.1.2 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.1.3 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.1.4 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 4
2.21.5.1.5 Serial Port 2		Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.21.5.1.6 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.1.7 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 5
2.21.5.1.8 Floppy Disk Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.1.9 Parallel Port Mode	Allows to select how the parallel port signal are used.	Possible Choices: • Parallel Port • External FDC Default Value:

		• Parallel Port
2.21.5.1.10 Lpt Port		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.1.11 LPT Mode	When the Parallel Port is not used for floppy connection, selects the LPT Mode.	Possible Choices: • SPP • EPP 1.9 and SPP • ECP • ECP/EPP 1.9 • Printer Mode • EPP 1.7 and SPP • ECP/EPP 1.7 Default Value: • SPP
2.21.5.1.12 LPT Irq		Possible Choices: • Disabled • 5 • 7 Default Value: • Disabled
2.21.5.1.13 Hardware Monitor		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.1.14 Watchdog		Possible Choices: • Disabled • 1 Minute • 2 Minutes • 3 Minutes

		Default Value: • Disabled
2.21.5.1.15 Clock Selection	Set Input clock rate selection to 24/48MHz.	Possible Choices: • 24MHz • 48MHz Default Value: • 48MHz
2.21.5.2 Winbond/Nuvoton W83627xxx (0x4E)		
2.21.5.2.1 Keyboard Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.2.2 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.2.3 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.2.4 IRQ	Serial Port IRQ	

		Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 4
2.21.5.2.5 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.2.6 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.2.7 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15

		Default Value: • 5
2.21.5.2.8 Floppy Disk Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.2.9 Parallel Port Mode	Allows to select how the parallel port signal are used.	Possible Choices: • Parallel Port • External FDC Default Value: • Parallel Port
2.21.5.2.10 Lpt Port		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.2.11 LPT Mode	When the Parallel Port is not used for floppy connection, selects the LPT Mode.	Possible Choices: • SPP • EPP 1.9 and SPP • ECP • ECP/EPP 1.9 • Printer Mode • EPP 1.7 and SPP • ECP/EPP 1.7 Default Value: • SPP
2.21.5.2.12 LPT Irq		Possible Choices: • Disabled • 5 • 7

		Default Value: • Disabled
2.21.5.2.13 Hardware Monitor		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.2.14 Watchdog		Possible Choices: • Disabled • 1 Minute • 2 Minutes • 3 Minutes Default Value: • Disabled
2.21.5.2.15 Clock Selection	Set Input clock rate selection to 24/48MHz.	Possible Choices: • 24MHz • 48MHz Default Value: • 48MHz
2.21.5.3 Exar XR28V38x (0x2E)		
2.21.5.3.1 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.3.2 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0

		• 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.3.3 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 4
2.21.5.3.4 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.3.5 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.3.6 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4

		• 5 • 7 • 10 • 11 Default Value: • 5
2.21.5.3.7 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.3.8 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.3.9 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 10
2.21.5.3.10 Serial Port 4		Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.21.5.3.11 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F0
2.21.5.3.12 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 11
2.21.5.4 Exar XR28V38x (0x4E)		
2.21.5.4.1 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.4.2 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0

		• 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.4.3 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 4
2.21.5.4.4 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.4.5 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.4.6 IRQ	Serial Port IRQ	Possible Choices:

		• 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 5
2.21.5.4.7 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.4.8 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.4.9 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 10
2.21.5.4.10 Serial Port 4		Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.21.5.4.11 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F0
2.21.5.4.12 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 11
2.21.5.5 SMSC SCH 311x (0x2E)		
2.21.5.5.1 Keyboard Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.5.2 Serial Port 1		Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.21.5.5.3 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.5.4 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 4
2.21.5.5.5 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.5.6 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0

		• 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.5.7 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 5
2.21.5.5.8 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.5.9 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.5.10 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4

		• 5 • 7 • 10 • 11 Default Value: • 10
2.21.5.5.11 Serial Port 4		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.5.12 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F0
2.21.5.5.13 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 11
2.21.5.5.14 Serial Port 5		Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.21.5.5.15 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E8
2.21.5.5.16 IRQ	Serial Port IRQ	Possible Choices: • • 3 • 4 • 5 • 7 • 10 • 11
2.21.5.5.17 Serial Port 6		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.5.18 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0

		• 0x188 • 0x180 Default Value: • 0x1E0
2.21.5.5.19 IRQ	Serial Port IRQ	Possible Choices: • • 3 • 4 • 5 • 7 • 10 • 11
2.21.5.5.20 Floppy Disk Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.5.21 Lpt Port		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.5.22 LPT Mode	When the Parallel Port is not used for floppy connection, selects the LPT Mode.	Possible Choices: • SPP • EPP 1.9 and SPP • ECP • ECP/EPP 1.9 • Printer Mode • EPP 1.7 and SPP • ECP/EPP 1.7 Default Value: • SPP
2.21.5.5.23 LPT Irq		Possible Choices:

		• Disabled • 5 • 7 Default Value: • Disabled
2.21.5.6 SMSC SCH 311x (0x4E)		
2.21.5.6.1 Keyboard Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.6.2 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.6.3 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.6.4 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10

		• 11 Default Value: • 4
2.21.5.6.5 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.6.6 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.6.7 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 5
2.21.5.6.8 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.21.5.6.9 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.6.10 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 10
2.21.5.6.11 Serial Port 4		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.6.12 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188

		• 0x180 Default Value: • 0x1F0
2.21.5.6.13 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 11
2.21.5.6.14 Serial Port 5		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.6.15 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E8
2.21.5.6.16 IRQ	Serial Port IRQ	Possible Choices: • • 3 • 4 • 5 • 7

		• 10 • 11
2.21.5.6.17 Serial Port 6		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.6.18 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E0
2.21.5.6.19 IRQ	Serial Port IRQ	Possible Choices: • • 3 • 4 • 5 • 7 • 10 • 11
2.21.5.6.20 Floppy Disk Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.6.21 Lpt Port		Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.21.5.6.22 LPT Mode	When the Parallel Port is not used for floppy connection, selects the LPT Mode.	Possible Choices: • SPP • EPP 1.9 and SPP • ECP • ECP/EPP 1.9 • Printer Mode • EPP 1.7 and SPP • ECP/EPP 1.7 Default Value: • SPP
2.21.5.6.23 LPT Irq		Possible Choices: • Disabled • 5 • 7 Default Value: • Disabled
2.21.5.7 SMSC SCH 311x (0x162E)		
2.21.5.7.1 Keyboard Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.7.2 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.7.3 Address	Serial Port IO Base Address	

		Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.7.4 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 4
2.21.5.7.5 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.7.6 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value:

		• 0x3E8
2.21.5.7.7 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 5
2.21.5.7.8 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.7.9 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.7.10 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value:

		• 10
2.21.5.7.11 Serial Port 4		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.7.12 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F0
2.21.5.7.13 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 11
2.21.5.7.14 Serial Port 5		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.7.15 Address	Serial Port IO Base Address	

		Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E8
2.21.5.7.16 IRQ	Serial Port IRQ	Possible Choices: • • 3 • 4 • 5 • 7 • 10 • 11
2.21.5.7.17 Serial Port 6		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.7.18 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E0

2.21.5.7.19 IRQ	Serial Port IRQ	Possible Choices: • • 3 • 4 • 5 • 7 • 10 • 11
2.21.5.7.20 Floppy Disk Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.7.21 Lpt Port		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.7.22 LPT Mode	When the Parallel Port is not used for floppy connection, selects the LPT Mode.	Possible Choices: • SPP • EPP 1.9 and SPP • ECP • ECP/EPP 1.9 • Printer Mode • EPP 1.7 and SPP • ECP/EPP 1.7 Default Value: • SPP
2.21.5.7.23 LPT Irq		Possible Choices: • Disabled • 5 • 7 Default Value: • Disabled

2.21.5.8 SMSC SCH 311x (0x164E)		
2.21.5.8.1 Keyboard Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.8.2 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.8.3 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.8.4 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 4

2.21.5.8.5 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.8.6 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.8.7 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 5
2.21.5.8.8 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.8.9 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8

		• 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.8.10 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 10
2.21.5.8.11 Serial Port 4		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.8.12 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F0

2.21.5.8.13 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 11
2.21.5.8.14 Serial Port 5		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.8.15 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E8
2.21.5.8.16 IRQ	Serial Port IRQ	Possible Choices: • • 3 • 4 • 5 • 7 • 10 • 11
2.21.5.8.17 Serial Port 6		

		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.8.18 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E0
2.21.5.8.19 IRQ	Serial Port IRQ	Possible Choices: • • 3 • 4 • 5 • 7 • 10 • 11
2.21.5.8.20 Floppy Disk Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.8.21 Lpt Port		Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.21.5.8.22 LPT Mode	When the Parallel Port is not used for floppy connection, selects the LPT Mode.	Possible Choices: • SPP • EPP 1.9 and SPP • ECP • ECP/EPP 1.9 • Printer Mode • EPP 1.7 and SPP • ECP/EPP 1.7 Default Value: • SPP
2.21.5.8.23 LPT Irq		Possible Choices: • Disabled • 5 • 7 Default Value: • Disabled
2.21.5.9 Fintek F81214E (0x2E)		
2.21.5.9.1 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.9.2 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8

2.21.5.9.3 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 4
2.21.5.9.4 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.9.5 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.9.6 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 5

2.21.5.10 Fintek F81214E (0x4E)		
2.21.5.10.1 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.10.2 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.10.3 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 4
2.21.5.10.4 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.21.5.10.5 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.10.6 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 5
2.21.5.11 Nuvoton Nct610xD (0x2E)		
2.21.5.11.1 Keyboard Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.11.2 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.11.3 Address	Serial Port IO Base Address	

		Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.11.4 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 4
2.21.5.11.5 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.11.6 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188

		• 0x180 Default Value: • 0x3E8
2.21.5.11.7 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 5
2.21.5.11.8 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.11.9 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.11.10 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4

		• 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 10
2.21.5.11.11 Serial Port 4		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.11.12 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F0
2.21.5.11.13 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 11

2.21.5.11.14 Serial Port 5		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.11.15 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E8
2.21.5.11.16 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 14
2.21.5.11.17 Serial Port 6		Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.21.5.11.18 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E0
2.21.5.11.19 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 15
2.21.5.11.20 Floppy Disk Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.11.21 Parallel Port Mode	Allows to select how the parallel port signal are used.	Possible Choices: • Parallel Port • External FDC Default Value: • Parallel Port

2.21.5.11.22 Lpt Port		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.11.23 LPT Mode	When the Parallel Port is not used for floppy connection, selects the LPT Mode.	Possible Choices: • SPP • EPP 1.9 and SPP • ECP • ECP/EPP 1.9 • Printer Mode • EPP 1.7 and SPP • ECP/EPP 1.7 Default Value: • SPP
2.21.5.11.24 LPT Irq		Possible Choices: • Disabled • 5 • 7 Default Value: • Disabled
2.21.5.11.25 Hardware Monitor		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.11.26 Watchdog		Possible Choices: • Disabled • 1 Minute • 2 Minutes • 3 Minutes Default Value: • Disabled

2.21.5.12 Nuvoton Nct610xD (0x4E)		
2.21.5.12.1 Keyboard Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.12.2 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.12.3 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8
2.21.5.12.4 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value:

		• 4
2.21.5.12.5 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.12.6 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.12.7 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 5
2.21.5.12.8 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.21.5.12.9 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.12.10 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 10
2.21.5.12.11 Serial Port 4		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.12.12 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0

		• 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F0
2.21.5.12.13 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 11
2.21.5.12.14 Serial Port 5		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.12.15 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E8
2.21.5.12.16 IRQ	Serial Port IRQ	

		Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 14
2.21.5.12.17 Serial Port 6		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.12.18 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1E0
2.21.5.12.19 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15

		Default Value: • 15
2.21.5.12.20 Floppy Disk Controller		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.12.21 Parallel Port Mode	Allows to select how the parallel port signal are used.	Possible Choices: • Parallel Port • External FDC Default Value: • Parallel Port
2.21.5.12.22 Lpt Port		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.12.23 LPT Mode	When the Parallel Port is not used for floppy connection, selects the LPT Mode.	Possible Choices: • SPP • EPP 1.9 and SPP • ECP • ECP/EPP 1.9 • Printer Mode • EPP 1.7 and SPP • ECP/EPP 1.7 Default Value: • SPP
2.21.5.12.24 LPT Irq		Possible Choices: • Disabled • 5 • 7

		Default Value: • Disabled
2.21.5.12.25 Hardware Monitor		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.12.26 Watchdog		Possible Choices: • Disabled • 1 Minute • 2 Minutes • 3 Minutes Default Value: • Disabled
2.21.5.13 Fintek F81216E (0x2E)		
2.21.5.13.1 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.13.2 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3F8

2.21.5.13.3 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 4
2.21.5.13.4 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.13.5 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.13.6 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 5

2.21.5.13.7 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.13.8 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.13.9 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 10
2.21.5.13.10 Serial Port 4		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.13.11 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8

		• 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F0
2.21.5.13.12 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 11
2.21.5.14 Fintek F81216E (0x4E)		
2.21.5.14.1 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.14.2 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value:

		• 0x3F8
2.21.5.14.3 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 4
2.21.5.14.4 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.21.5.14.5 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x3E8
2.21.5.14.6 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value:

		• 5
2.21.5.14.7 Serial Port 3		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.14.8 Address	Serial Port IO Base Address	Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F8
2.21.5.14.9 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 10
2.21.5.14.10 Serial Port 4		Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.5.14.11 Address	Serial Port IO Base Address	

		Possible Choices: • 0x3F8 • 0x3E8 • 0x1F8 • 0x1F0 • 0x1E8 • 0x1E0 • 0x1A8 • 0x1A0 • 0x188 • 0x180 Default Value: • 0x1F0
2.21.5.14.12 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 7 • 10 • 11 Default Value: • 11
2.21.6 Main Thermal Configuration		
2.21.6.1 Critical Temperature (Â°C)		Possible Choices: • • • • • • • • • Disabled
2.21.6.2 Hardware Passive Cooling Temperature (Â°C)		Possible Choices: • • • • • • •

		• • • • • • • • • •
2.21.7 Peripherals configuration		
2.21.7.1 I2C0 controller selection	Select I2C0 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.2 I2C0 Details		
2.21.7.3 Speed	Configure I2C Speed in Khz	Possible Choices: • 100 kHz • 400 kHz Default Value: • 100 kHz
2.21.7.4 I2C1 controller selection	Select I2C1 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.5 I2C1 Details		
2.21.7.6 Speed	Configure I2C Speed in Khz	Possible Choices: • 100 kHz • 400 kHz Default Value:

		• 100 kHz
2.21.7.7 I2C2 controller selection	Select I2C2 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.8 I2C2 Details		
2.21.7.9 Speed	Configure I2C Speed in Khz	Possible Choices: • 100 kHz • 400 kHz Default Value: • 100 kHz
2.21.7.10 SPI0 controller selection	Select SPI0 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.11 SPI0 Details		
2.21.7.12 GPIO configuration		
2.21.7.12.1 GPIO0 Alternate Function	Enabling this option GPIO0 will be configured for its alternate function	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.7.12.2 GPIO0 - Alternate Function: CAM0_PWR#		
2.21.7.12.3 GPIO0 controller selection	Select GPIO0 master controller	Possible Choices:

		• Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.12.4 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Output Low
2.21.7.12.5 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Output Low
2.21.7.12.6 Input Level		
2.21.7.12.7 Input Level		
2.21.7.12.8 GPIO1 Alternate Function	Enabling this option GPIO1 will be configured for its alternate function	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.21.7.12.9 GPIO1 - Alternate Function: CAM1_PWR#		
2.21.7.12.10 GPIO1 controller selection	Select GPIO1 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.12.11 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Output Low
2.21.7.12.12 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Output Low
2.21.7.12.13 Input Level		
2.21.7.12.14 Input Level		
2.21.7.12.15 GPIO2 Alternate Function	Enabling this option GPIO2 will be configured for its alternate function	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.21.7.12.16 GPIO2 - Alternate Function: CAM0_RST#		
2.21.7.12.17 GPIO2 controller selection	Select GPIO2 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.12.18 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Output Low
2.21.7.12.19 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Output Low
2.21.7.12.20 Input Level		
2.21.7.12.21 Input Level		
2.21.7.12.22 GPIO3 Alternate Function	Enabling this option GPIO3 will be configured for its alternate	

	function	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.7.12.23 GPIO3 - Alternate Function: CAM1_RST#		
2.21.7.12.24 GPIO3 controller selection	Select GPIO3 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.12.25 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Output Low
2.21.7.12.26 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Output Low
2.21.7.12.27 Input Level		

2.21.7.12.28 Input Level		
2.21.7.12.29 GPIO4 Alternate Function	Enabling this option GPIO4 will be configured for its alternate function	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.7.12.30 GPIO4 - Alternate Function: HDA_RST#		
2.21.7.12.31 GPIO4 controller selection	Select GPIO4 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.12.32 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Input with Pull-Up
2.21.7.12.33 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value:

		• Input with Pull-Up
2.21.7.12.34 Input Level		
2.21.7.12.35 Input Level		
2.21.7.12.36 GPIO5 Alternate Function	Enabling this option GPIO5 will be configured for its alternate function	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.7.12.37 GPIO5 - Alternate Function: PWM_OUT		
2.21.7.12.38 GPIO5 controller selection	Select GPIO5 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.12.39 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Input with Pull-Up
2.21.7.12.40 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High

		• Output Last Default Value: • Input with Pull-Up
2.21.7.12.41 Input Level		
2.21.7.12.42 Input Level		
2.21.7.12.43 GPIO6 Alternate Function	Enabling this option GPIO6 will be configured for its alternate function	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.7.12.44 GPIO6 - Alternate Function: TACHIN		
2.21.7.12.45 GPIO6 controller selection	Select GPIO6 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.12.46 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Input with Pull-Up
2.21.7.12.47 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input

		• Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Input with Pull-Up
2.21.7.12.48 Input Level		
2.21.7.12.49 Input Level		
2.21.7.12.50 GPIO7 Alternate Function	Enabling this option GPIO7 will be configured for its alternate function	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.21.7.12.51 Alternate function is enabled		
2.21.7.12.52 GPIO7 controller selection	Select GPIO7 master controller	Possible Choices: • Disabled • Embedded Controller • SOC Default Value: • Embedded Controller
2.21.7.12.53 Configuration	Configure GPIO PIN direction and default behavior. Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Input with Pull-Up
2.21.7.12.54 Configuration	Configure GPIO PIN direction and default behavior.	

	Last means no changes with respect to the last boot.	Possible Choices: • Input • Input with Pull-Up • Interrupt Input • Interrupt Input with Pull-Up • Output Low • Output High • Output Last Default Value: • Input with Pull-Up
2.21.7.12.55 Input Level		
2.21.7.12.56 Input Level		
2.22 SMBIOS Information		
2.22.1 Type 0 - BIOS Information		
2.22.2 Vendor		
2.22.3 BIOS Version		
2.22.4 BIOS Release Date		
2.22.5 BIOS Major Release		
2.22.6 BIOS Minor Release		
2.22.7 Embedded Controller Major Release		
2.22.8 Embedded Controller Minor Release		
2.22.9 Type 1 - System Information		
2.22.10 Manufacturer		
2.22.11 Product Name		
2.22.12 Version		
2.22.13 Serial Number		
2.22.14 SKU Number		
2.22.15 Family		
2.22.16 Type 2 - Module Information		
2.22.17 Manufacturer		
2.22.18 Product Name		

2.22.19 Version		
2.22.20 Serial Number		
2.22.21 Asset Tag		
2.22.22 Type 28 - Temperature Probe Information		
2.22.23 Cpu TBOOT (Â°C)		
2.22.24 Chipset TBOOT (Â°C)		
2.23 LVDS Configuration		
2.23.1 Library Version		Default Value: • 4 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.2 LVDS interface	Enables/Disabled LVDS interface	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.3 Edid Mode	Allows to select EDID: -External: loading from external source -Default: from a default list by SECO -Custom: fully customizing panel timings	Possible Choices: • External • Default • Custom Default Value: • Default
2.23.4 Active Custom Panel Configuration	Select which panel you would like to configure	Possible Choices: • Panel 00 • Panel 01 • Panel 02 • Panel 03 • Panel 04 • Panel 05

		• Panel 06 • Panel 07 • Panel 08 • Panel 09 • Panel 10 • Panel 11 • Panel 12 • Panel 13 • Panel 14 • Panel 15 Default Value: • Panel 00
2.23.5 EDID	Select a software resolution (EDID settings) to be used for the internal flat panel.	Possible Choices: • 640x480 • 800x480 • 800x600 • 1024x600 • 1024x768 • 1280x720 • 1280x800 • 1280x1024 • 1366x768 • 1400x900 • 1600x900 • 1680x1050 • 1920x1080 Default Value: • 1920x1080
2.23.6 Not Present Behaviour	Select what to do then external EDID is not detected or is not valid	Possible Choices: • Load default EDID • Disable LVDS interface Default Value: • Load default EDID
2.23.7 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • VESA 24 bpp

2.23.8 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Dual Channel
2.23.9 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.10 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.11 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.12 LVDS Advanced Options		
2.23.12.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%

2.23.12.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.12.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.12.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.12.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.12.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.23.12.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.12.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.12.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.12.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.12.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%

2.23.13 Panel 00 Configuration		
2.23.13.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.13.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.13.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.13.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.13.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.13.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch +	Default Value:

	Vertical Pulse Width + Vertical Back Porch	• 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.13.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.13.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.13.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.13.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.13.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative

		• Positive Default Value: • Negative
2.23.13.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.13.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.13.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.13.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.13.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive

2.23.13.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.13.18 LVDS Advanced Options		
2.23.13.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.13.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.13.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.13.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value:

		• 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.13.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.13.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.13.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.13.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.13.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.23.13.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.13.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.14 Panel 01 Configuration		
2.23.14.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.14.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.14.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095

2.23.14.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.14.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.14.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.14.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.14.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023

2.23.14.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.14.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.14.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.14.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.14.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.14.14 Interface		Possible Choices:

		• Single Channel • Dual Channel Default Value: • Single Channel
2.23.14.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.14.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.14.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.14.18 LVDS Advanced Options		
2.23.14.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.14.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV

		• 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.14.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.14.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.14.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.14.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.14.18.7 T5 Delay	Enable T5 delay. T5 is delayed	

	by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.14.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.14.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.14.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.14.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.15 Panel 02 Configuration		
2.23.15.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char].	

	Clear this field to remove the custom name	
2.23.15.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.15.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.15.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.15.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.15.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range:

		Minimum Value: 1 Maximum Value: 4095
2.23.15.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.15.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.15.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.15.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.15.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value:

		• Negative
2.23.15.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.15.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.15.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.15.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.15.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.15.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive

		• Negative Default Value: • Positive
2.23.15.18 LVDS Advanced Options		
2.23.15.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.15.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.15.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.15.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range:

		Minimum Value: 0 Maximum Value: 255
2.23.15.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.15.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.15.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.15.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.15.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.15.18.10 Bus Swapping	Enable for swapped odd and	

	even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.15.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.16 Panel 03 Configuration		
2.23.16.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.16.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.16.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.16.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal	

	Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.16.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.16.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.16.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.16.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.16.9 Vertical Offset	Vertical Front Porch in lines	

		Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.16.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.16.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.16.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.16.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.16.14 Interface		Possible Choices: • Single Channel • Dual Channel

		Default Value: • Single Channel
2.23.16.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.16.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.16.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.16.18 LVDS Advanced Options		
2.23.16.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.16.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV

		• 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.16.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.16.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.16.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.16.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.16.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled

		Default Value: • Enabled
2.23.16.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.16.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.16.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.16.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.17 Panel 04 Configuration		
2.23.17.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	

2.23.17.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.17.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.17.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.17.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.17.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095

2.23.17.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.17.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.17.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.17.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.17.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.17.12 Vertical Polarity	Sync signal Polariry: Default is	

	Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.17.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.17.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.17.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.17.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.17.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value:

		• Positive
2.23.17.18 LVDS Advanced Options		
2.23.17.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.17.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.17.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.17.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.23.17.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.17.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.17.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.17.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.17.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.17.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.23.17.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.18 Panel 05 Configuration		
2.23.18.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.18.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.18.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.18.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two	Default Value: • 304

	times the data-sheet value	Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.18.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.18.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.18.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.18.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.18.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3

		Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.18.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.18.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.18.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.18.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.18.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel

2.23.18.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.18.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.18.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.18.18 LVDS Advanced Options		
2.23.18.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.18.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV

		Default Value: • 300 mV
2.23.18.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.18.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.18.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.18.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.18.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled

2.23.18.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.18.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.18.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.18.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.19 Panel 06 Configuration		
2.23.19.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.19.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25	

	MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.19.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.19.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.19.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.19.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.19.7 Horizontal Offset	Horizontal Front Porch in pixels	

		Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.19.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.19.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.19.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.19.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.19.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive

		Default Value: • Negative
2.23.19.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.19.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.19.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.19.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.19.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.19.18 LVDS Advanced Options		

2.23.19.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.19.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.19.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.19.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.19.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value:

		• 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.19.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.19.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.19.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.19.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.19.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.23.19.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.20 Panel 07 Configuration		
2.23.20.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.20.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.20.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.20.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095

2.23.20.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.20.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.20.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.20.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.20.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63

2.23.20.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.20.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.20.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.20.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.20.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.20.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High

		• Active Low Default Value: • Active High
2.23.20.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.20.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.20.18 LVDS Advanced Options		
2.23.20.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.20.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV

2.23.20.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.20.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.20.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.20.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.20.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.20.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices:

		• Disabled • Enabled Default Value: • Disabled
2.23.20.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.20.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.20.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.21 Panel 08 Configuration		
2.23.21.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.21.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range:

		Minimum Value: 2500 Maximum Value: 22400
2.23.21.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.21.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.21.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.21.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.21.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range:

		Minimum Value: 1 Maximum Value: 1023
2.23.21.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.21.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.21.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.21.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.21.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative

2.23.21.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.21.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.21.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.21.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.21.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.21.18 LVDS Advanced Options		
2.23.21.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading

		• 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.21.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.21.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.21.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.21.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0

		Maximum Value: 255
2.23.21.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.21.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.21.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.21.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.21.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.21.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12%

		• 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.22 Panel 09 Configuration		
2.23.22.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.22.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.22.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.22.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.22.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768

		Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.22.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.22.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.22.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.22.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.22.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4

		Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.22.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.22.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.22.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.22.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.22.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High

2.23.22.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.22.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.22.18 LVDS Advanced Options		
2.23.22.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.22.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.22.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10

		Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.22.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.22.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.22.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.22.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.22.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.23.22.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.22.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.22.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.23 Panel 10 Configuration		
2.23.23.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.23.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.23.3 Horizontal Active	Horizontal Addressable Video in	

	pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.23.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.23.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.23.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.23.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.23.8 Horizontal Pulse	Horizontal Sync Pulse Width in	

	pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.23.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.23.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.23.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.23.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.23.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp

		• 18 bpp Default Value: • JEIDA 24 bpp
2.23.23.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.23.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.23.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.23.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.23.18 LVDS Advanced Options		
2.23.23.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5%

		Default Value: • 1.0%
2.23.23.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.23.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.23.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.23.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.23.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices:

		• Disabled • Enabled Default Value: • Enabled
2.23.23.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.23.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.23.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.23.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.23.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100%

		Default Value: • 6: +/- 100%
2.23.24 Panel 11 Configuration		
2.23.24.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.24.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.24.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.24.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.24.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095

2.23.24.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.24.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.24.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.24.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.24.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63

2.23.24.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.24.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.24.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.24.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.24.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.24.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative

		Default Value: • Positive
2.23.24.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.24.18 LVDS Advanced Options		
2.23.24.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.24.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.24.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255

2.23.24.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.24.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.24.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.24.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.24.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.24.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.23.24.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.24.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.25 Panel 12 Configuration		
2.23.25.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.25.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.25.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024

		Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.25.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.25.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.25.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.25.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.25.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104

		Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.25.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.25.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.25.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.25.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.25.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp

2.23.25.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.25.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.25.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.25.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.25.18 LVDS Advanced Options		
2.23.25.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%

2.23.25.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.25.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.25.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.25.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.25.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value:

		• Enabled
2.23.25.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.25.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.25.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.25.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.25.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%

2.23.26 Panel 13 Configuration		
2.23.26.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.26.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.26.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.26.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.26.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.26.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch +	Default Value:

	Vertical Pulse Width + Vertical Back Porch	• 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.26.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.26.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.26.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.26.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.26.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative

		• Positive Default Value: • Negative
2.23.26.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.26.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.26.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.26.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.26.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive

2.23.26.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.26.18 LVDS Advanced Options		
2.23.26.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.26.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.26.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.26.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value:

		• 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.26.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.26.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.26.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.26.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.26.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.23.26.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.26.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.27 Panel 14 Configuration		
2.23.27.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char]. Clear this field to remove the custom name	
2.23.27.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.27.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095

2.23.27.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.27.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.27.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.27.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.27.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023

2.23.27.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.27.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.27.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.27.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.27.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.27.14 Interface		Possible Choices:

		• Single Channel • Dual Channel Default Value: • Single Channel
2.23.27.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.27.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.27.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.27.18 LVDS Advanced Options		
2.23.27.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.27.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV

		• 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.27.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.27.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.27.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.27.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.27.18.7 T5 Delay	Enable T5 delay. T5 is delayed	

	by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.27.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.27.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.27.18.10 Bus Swapping	Enable for swapped odd and even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.27.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.28 Panel 15 Configuration		
2.23.28.1 Custom Panel setup name	Select a name to identify this custom setup [Max 24 char].	

	Clear this field to remove the custom name	
2.23.28.2 Pixel Clock / 10000	Working Frequency in 10 kHz units, e.g. 6350 --> 63.5 MHz. Allowed range from 2500 (25 MHz) to 22400 (224 MHz). For Dual Channel devices, two times the data-sheet value	Default Value: • 6350 Numeric Range: Minimum Value: 2500 Maximum Value: 22400
2.23.28.3 Horizontal Active	Horizontal Addressable Video in pixels, a.k.a. Horizontal Resolution, e.g. 1024 on a 1024x768 LFP. For Dual Channel devices, two times the data-sheet value	Default Value: • 1024 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.28.4 Horizontal Blank	Horizontal Blanking in pixels, equals Horizontal Total - Horizontal Active and Horizontal Front Porch + Horizontal Pulse Width + Horizontal Back Porch. For Dual Channel devices, two times the data-sheet value	Default Value: • 304 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.28.5 Vertical Active	Vertical Addressable Video in lines, a.k.a. Vertical Resolution, e.g. 768 on a 1024x768 LFP	Default Value: • 768 Numeric Range: Minimum Value: 1 Maximum Value: 4095
2.23.28.6 Vertical Blank	Vertical Blanking in lines, equals Vertical Total - Vertical Active and Vertical Front Porch + Vertical Pulse Width + Vertical Back Porch	Default Value: • 30 Numeric Range:

		Minimum Value: 1 Maximum Value: 4095
2.23.28.7 Horizontal Offset	Horizontal Front Porch in pixels	Default Value: • 48 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.28.8 Horizontal Pulse	Horizontal Sync Pulse Width in pixels	Default Value: • 104 Numeric Range: Minimum Value: 1 Maximum Value: 1023
2.23.28.9 Vertical Offset	Vertical Front Porch in lines	Default Value: • 3 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.28.10 Vertical Pulse	Vertical Sync Pulse Width in lines	Default Value: • 4 Numeric Range: Minimum Value: 1 Maximum Value: 63
2.23.28.11 Horizontal Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value:

		• Negative
2.23.28.12 Vertical Polarity	Sync signal Polariry: Default is Negative (Active Low)	Possible Choices: • Negative • Positive Default Value: • Negative
2.23.28.13 Color Mode		Possible Choices: • VESA 24 bpp • JEIDA 24 bpp • 18 bpp Default Value: • JEIDA 24 bpp
2.23.28.14 Interface		Possible Choices: • Single Channel • Dual Channel Default Value: • Single Channel
2.23.28.15 DE Polarity	Data Enable Polarity	Possible Choices: • Active High • Active Low Default Value: • Active High
2.23.28.16 V-Sync Polarity	Vertical Sync Polarity	Possible Choices: • Positive • Negative Default Value: • Positive
2.23.28.17 H-Sync Polarity	Horizontal Sync Polarity	Possible Choices: • Positive

		• Negative Default Value: • Positive
2.23.28.18 LVDS Advanced Options		
2.23.28.18.1 Spreading Depth	LVDS clock frequency center spreading depth	Possible Choices: • No Spreading • 0.5% • 1.0% • 1.5% • 2.0% • 2.5% Default Value: • 1.0%
2.23.28.18.2 Output Swing	LVDS differential output swing level	Possible Choices: • 150 mV • 200 mV • 250 mV • 300 mV • 350 mV • 400 mV • 450 mV Default Value: • 300 mV
2.23.28.18.3 T3 Timing	Minimum T3 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 10 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.28.18.4 T4 Timing	Minimum T4 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 2 Numeric Range:

		Minimum Value: 0 Maximum Value: 255
2.23.28.18.5 T12 Timing	Minimum T12 timing of panel power sequence to enforce (expressed in units of 50ms)	Default Value: • 20 Numeric Range: Minimum Value: 0 Maximum Value: 255
2.23.28.18.6 T2 Delay	Enable T2 delay. T2 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.28.18.7 T5 Delay	Enable T5 delay. T5 is delayed by 20mS +/- 50%	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.23.28.18.8 P/N Pairs Swapping	Differential pairs (P/N) swapping	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.28.18.9 Pairs Order Swapping	Channel differential pairs order swapping. (A<->D,B<->CLK,C<->C)	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.28.18.10 Bus Swapping	Enable for swapped odd and	

	even busses	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.23.28.18.11 Firmware PLL	Firmware PLL range.	Possible Choices: • 0: +/- 1.56% • 1: +/- 3.12% • 2: +/- 6.25% • 3: +/- 12.5% • 4: +/- 25% • 5: +/- 50% • 6: +/- 100% Default Value: • 6: +/- 100%
2.23.29 External LVDS edid not found		
2.23.30 Invalid external LVDS edid Data		
2.23.31 External LVDS edid Data:		
2.23.32 External LVDS edid Data with EPI block:		
2.23.33 Color Mode		
2.23.34 Interface		
2.23.35 DE Polarity		
2.23.36 Pixel Clock / 10000		
2.23.37 Horizontal Active		
2.23.38 Horizontal Blank		
2.23.39 Vertical Active		
2.23.40 Vertical Blank		
2.23.41 Horizontal Offset		
2.23.42 Horizontal Pulse		
2.23.43 Vertical Offset		
2.23.44 Vertical Pulse		

2.24 Embedded Controller		
2.24.1 Hardware Flavor		
2.24.2 Firmware / Library Version		
2.24.3 Firmware Time Stamp		
2.24.4 Boot Counter		
2.24.5 Serial Number		
2.24.6 Part Number		
2.24.7 Power Fail Resume Type	Specify what state to go to when power is re-applied after a power failure (G3 state). If Batteryless Operation, the chipset always powers on after a power failure: Always OFF Resume Type or Last State when Last State was OFF will therefore require an immediate shutdown	Possible Choices: • Always ON • Always OFF • Last State Default Value: • Always ON
2.24.8 Power On Delay	Programmable delay before evaluating system state and powering on the system in case of Always On or Last State (On)	Possible Choices: • 100 ms • 500 ms • 1 s • 1.5 s • 2 s • 3 s • 4 s • 5 s • 6 s • 7 s • 8 s • 9 s • 10 s Default Value: • 1 s
2.24.9 No C-MOS battery handling	In systems with no C-MOS battery, the chipset always powers on after a power failure: Always OFF Resume Type or Last State when Last State was OFF will therefore require an immediate shutdown	Possible Choices: • Disabled • Enabled Default Value: • Disabled

2.24.10 Deep Sleep	Enable or disable deep sleep support	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.24.11 LID_BTN# Configuration	Configure LID_BTN# as always open/closed, no matter the pin level, or configures the pin polarity: High=Open (Normal), Low=Open (Inverted)	Possible Choices: • Force Open • Force Closed • Normal Polarity • Inverted Polarity Default Value: • Force Open
2.24.12 LID_BTN# Wake Configuration	Configure LID_BTN# wake capability. According to the pin configuration, when the LID is open it can cause a system wake from a sleep state.	Possible Choices: • No Wake • Only From S3 • Wake From S3/S4/S5 Default Value: • No Wake
2.24.13 SMB_ALERT# wake	Enable SMBUS Alert Wake from Suspend state.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.24.14 OUT 80 serial redirection port	Select on which E.C. UART(s) to redirect OUT 80 (Post Codes): can be None, 1, 2 or 1+2	Possible Choices: • None • 1 • 2 • 1+2 Default Value: • None

2.24.15 OUT 80 I2C redirection type	EGPIO type and topology, one of: Disabled 9535 std = 9535 compatible, HPC standard topology 2301x std = 2301x compatible, HPC standard topology 9535 lin = 9535 compatible, linear topology HT16K33 = B79 Smarc Carrier postcode driver	Possible Choices: • Disabled • 9535 std • 2301x std • 9535 lin • HT16K33 Default Value: • 9535 std
2.24.16 OUT 80 I2C redirection address	8 bit I2C address for OUT 80 redirection	Possible Choices: • 40 • 42 • 44 • 46 • 48 • 4A • 4C • 4E • E2 Default Value: • 40
2.24.17 Hardware Monitor		
2.24.17.1 Monitor hardware parameters and settings		
2.24.17.2 RAM Temperature		
2.24.17.3 RAM Temperature		
2.24.17.4 VCCCORE		
2.24.17.5 VCCCORE		
2.24.17.6 VDD2_CPU		
2.24.17.7 VDD2_CPU		
2.24.17.8 VCCGT		
2.24.17.9 VCCGT		
2.24.17.10 VNNAON		

2.24.17.11 VNNAON		
2.24.17.12 VCCSA		
2.24.17.13 VCCSA		
2.24.17.14 1.8V_ALW		
2.24.17.15 1.8V_ALW		
2.24.17.16 3.3V_ALW		
2.24.17.17 3.3V_ALW		
2.24.17.18 5V_ALW		
2.24.17.19 5V_ALW		
2.24.18 Reset Causes Handling		
2.24.18.1 Reset Button Pressed		Possible Choices: • Not Happened • Happened Default Value: • Not Happened
2.24.18.2 Clear from log	If Enabled will require system reset	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.24.18.3 WDT Timeout Expired		Possible Choices: • Not Happened • Happened Default Value: • Not Happened
2.24.18.4 Clear from log	If Enabled will require system reset	Possible Choices: • Disabled • Enabled

		Default Value: • Disabled
2.24.18.5 Power Failure		Possible Choices: • Not Happened • Happened Default Value: • Not Happened
2.24.18.6 Clear from log	If Enabled will require system reset	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.24.18.7 E.C. soft reset		Possible Choices: • Not Happened • Happened Default Value: • Not Happened
2.24.18.8 Clear from log	If Enabled will require system reset	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.24.19 Peripherals Configuration		
2.24.19.1 485 time-out	485 patch time-out in microseconds	Possible Choices: • 500 • 1000 • 1500 • 2000 Default Value: • 500

2.24.19.2 Serial Port 1		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.24.19.3 Address	Serial Port IO Base Address	Possible Choices: • 0x2F8 • 0x2F0 • 0x2E8 • 0x2E0 • 0x2A8 • 0x2A0 • 0x288 • 0x280 Default Value: • 0x2F8
2.24.19.4 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 3
2.24.19.5 Serial Port 2		Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.24.19.6 Address	Serial Port IO Base Address	Possible Choices:

		• 0x2F8 • 0x2F0 • 0x2E8 • 0x2E0 • 0x2A8 • 0x2A0 • 0x288 • 0x280 Default Value: • 0x2E8
2.24.19.7 IRQ	Serial Port IRQ	Possible Choices: • 3 • 4 • 5 • 6 • 7 • 10 • 11 • 14 • 15 Default Value: • 7
2.24.20 Internal FAN Settings		
2.24.20.1 FAN Power Failure Duty Cycle (%)	Duty Cycle (%) when resuming from Power Failure (G3-->S0)	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.24.20.2 FAN_PWMOUT device type	Specifies if FAN_PWMOUT is connected to a 3-wire or 4-wire FAN or to a generic PWM	Possible Choices: • 3-WIRE FAN • 4-WIRE FAN • Generic PWM Default Value: • 4-WIRE FAN
2.24.20.3 Enhanced 3 wire RPM measurement	Enabled: on each measurement phase Duty Cycle will be raised	

	to 100% for 100 mS then restored to original value to allow a more precise measure avoiding unwanted ripple on tachometer. Disabled: periodic fan speed up will not occour, but RPM measurement will not be accurate	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.24.20.4 FAN_PWMOUT frequency	Sets the frequency of the FAN_PWMOUT signal.	Default Value: • 2200 Numeric Range: Minimum Value: 1 Maximum Value: 60000
2.24.20.5 FAN_PWMOUT duty cycle (%)	Sets the Duty Cycle of the FAN_PWMOUT signal.	Default Value: • 100 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.24.20.6 Automatic Temperature FAN Control	Disable/Enable Thermal Feed-back FAN Control	Possible Choices: • Disabled • Enabled Default Value: • Enabled
2.24.20.7 FAN PWM Frequency	Sets the frequency of the FAN_PWMOUT signal. Typical values are 100 for a 3-wire device and 20000 for a 4-wire one. Allowed range is 1-60000.	Default Value: • 2200 Numeric Range: Minimum Value: 1 Maximum Value: 60000
2.24.20.8 FAN Duty Cycle (%)	Sets the Duty Cycle of the	

	FAN_PWMOUT signal.	Default Value: • 100 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.24.20.9 AC0 Temperature (C)	AC0: above this temperature the FAN runs at full speed.	Possible Choices: • 70 • 75 • 80 • 85 • 90 • 95 • 100 Default Value: • 75
2.24.20.10 AC1 Temperature (C)	AC1: below this temperature the FAN is OFF; between AC1 and AC0 the FAN runs at low speed: this never happens if AC1 is not below AC0.	Possible Choices: • 5 • 10 • 15 • 20 • 25 • 30 • 35 • 40 • 45 • 50 • 55 • 60 • 65 • 70 • 75 • 80 • 85 • 90 • 95 • 100 Default Value: • 40
2.24.20.11 Temperature Hysteresis	Added to ACx Thresholds when temperature is growing and subtracted when it is lowering,	

	to avoid oscillations.	Default Value: • 3 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.24.20.12 Linear Speed change	Linear FAN Duty Cycle growth between AC1 and AC0.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.24.20.13 FAN Duty Cycle (%) Above AC1	FAN Duty Cycle (%) between AC1 and AC0 (low speed).	Default Value: • 75 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.24.20.14 Speed change duration	Duration in seconds of linear FAN speed change. Allowed range: from 0 to 50.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 50
2.24.21 External FAN/PWM Settings		
2.24.21.1 FAN Power Failure Duty Cycle (%)	Duty Cycle (%) when resuming from Power Failure (G3-->S0)	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.24.21.2 FAN_PWMOUT device type	Specifies if FAN_PWMOUT is connected to a 3-wire or 4-wire	Possible Choices:

	FAN or to a generic PWM	• 3-WIRE FAN • 4-WIRE FAN • Generic PWM Default Value: • 4-WIRE FAN
2.24.21.3 Enhanced 3 wire RPM measurement	Enabled: on each measurement phase Duty Cycle will be raised to 100% for 100 mS then restored to original value to allow a more precise measure avoiding unwanted ripple on tachometer. Disabled: periodic fan speed up will not occour, but RPM measurement will not be accurate	Possible Choices: • Enabled • Disabled Default Value: • Enabled
2.24.21.4 FAN_PWMOUT frequency	Sets the frequency of the FAN_PWMOUT signal.	Default Value: • 2200 Numeric Range: Minimum Value: 1 Maximum Value: 60000
2.24.21.5 FAN_PWMOUT duty cycle (%)	Sets the Duty Cycle of the FAN_PWMOUT signal.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.24.21.6 Automatic Temperature FAN Control	Disable/Enable Thermal Feed-back FAN Control	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.24.21.7 FAN PWM Frequency	Sets the frequency of the FAN_PWMOUT signal. Typical	

	values are 100 for a 3-wire device and 20000 for a 4-wire one. Allowed range is 1-60000.	Default Value: • 2200 Numeric Range: Minimum Value: 1 Maximum Value: 60000
2.24.21.8 FAN Duty Cycle (%)	Sets the Duty Cycle of the FAN_PWMOUT signal.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.24.21.9 AC0 Temperature (C)	AC0: above this temperature the FAN runs at full speed.	Possible Choices: • 70 • 75 • 80 • 85 • 90 • 95 • 100 Default Value: • 75
2.24.21.10 AC1 Temperature (C)	AC1: below this temperature the FAN is OFF; between AC1 and AC0 the FAN runs at low speed: this never happens if AC1 is not below AC0.	Possible Choices: • 5 • 10 • 15 • 20 • 25 • 30 • 35 • 40 • 45 • 50 • 55 • 60 • 65 • 70 • 75 • 80 • 85 • 90

		• 95 • 100 Default Value: • 40
2.24.21.11 Temperature Hysteresis	Added to ACx Thresholds when temperature is growing and subtracted when it is lowering, to avoid oscillations.	Default Value: • 3 Numeric Range: Minimum Value: 0 Maximum Value: 10
2.24.21.12 Linear Speed change	Linear FAN Duty Cycle growth between AC1 and AC0.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
2.24.21.13 FAN Duty Cycle (%) Above AC1	FAN Duty Cycle (%) between AC1 and AC0 (low speed).	Default Value: • 75 Numeric Range: Minimum Value: 0 Maximum Value: 100
2.24.21.14 Speed change duration	Duration in seconds of linear FAN speed change. Allowed range: from 0 to 50.	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 50
2.24.22 Watchdog Configuration		
2.24.22.1 Watchdog Status	Disables/Enables the Watchdog Timer mechanism	Possible Choices: • Disabled

		• Enabled Default Value: • Disabled
2.24.22.2 Event action	Select the Watchdog action when Event time-out expires.	Possible Choices: • Raise WDT Signal • Power Button Pulse Default Value: • Raise WDT Signal
2.24.22.3 Reset action	Select the Watchdog action when Reset time-out expires.	Possible Choices: • System Reset • Power Button Override • Raise WDT Signal Default Value: • System Reset
2.24.22.4 Watchdog Delay	Minutes before watchdog normal operation starts. During delay time-out, a refresh operation will immediately trigger normal operation. Valid range is from 0 to 60	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 60
2.24.22.5 Event time-out	Minutes without refresh before triggering selected event action. Refresh will restart the time-out. Valid range is from 0 to 60	Default Value: • 0 Numeric Range: Minimum Value: 0 Maximum Value: 60
2.24.22.6 Reset time-out	Minutes without refresh before triggering selected reset action, this timer will start when event time-out is expired. Refresh will restart the event time-out. Valid range is from 1 to 60	Default Value: • 1 Numeric Range:

		Minimum Value: 1 Maximum Value: 60
2.25 Driver Health		

3 Chipset

Setting	Help	Defaults
3.1 South Bridge		
3.2 North Bridge		

4 Security

Setting	Help	Defaults
4.1 Disable Block Sid and Freeze Lock	Override to allow SID authentication of TCG Storage device and to skip freeze lock command for SAT3 device.Modified value will be applicable only for next boot.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
4.2 Password Description		
4.3 If Administrator's password is set, then access to setup will be limited and only insert correct password will grant Administrator rights; Accessing without entering any password, or entering User password if defined and different from the Admin one, could be used to enter Setup in 'Read Only mode': User will be able to see current configuration but any change will be inhibited. Set User Password equal to Admin password to disable Read Only Access A valid password must be in the following length range:		
4.4 Minimum length		
4.5 Maximum length		
4.6 Administrator Password	Set Administrator Password	
4.7 User Password	Set User Password	
4.8 Disable Sanitize Freeze Lock	If this option is enabled, then sending Sanitize Freeze Lock command to HDDs will be skipped in next boot	Possible Choices: • Disabled • Enabled Default Value: • Disabled

4.9 Secure Boot		
4.9.1 System Mode		
4.9.2 System Mode		
4.9.3 System Mode		
4.9.4 System Mode		
4.9.5 Secure Boot Mode	Secure Boot mode options: Standard or Custom. In Custom mode, Secure Boot Policy variables can be configured by a physically present user without full authentication	Possible Choices: • Standard • Custom Default Value: • Custom
4.9.6 Expert Key Management		
4.9.6.1 Vendor Keys		
4.9.6.2 Vendor Keys		
4.9.6.3 Factory Key Provision	Install factory default Secure Boot keys after the platform reset and while the System is in Setup mode	Possible Choices: • Disabled • Enabled Default Value: • Enabled
4.9.6.4 Secure Boot variable | Size| Keys| Key Source		
4.10 Secure Flash Update		
4.10.1 Signed FW Update		
4.10.2 Signed FW Update		
4.10.3 FW Key File		
4.10.4 FW Key File		
4.10.5 FW Key File		
4.10.6 FW Key File		
4.10.7 FW Key Type		

4.10.8 FW Key Type		
4.10.9 FW Key Type		
4.10.10 FW Update Methods		
4.10.11 FW Update Methods		
4.10.12 FW Update Methods		
4.10.13 FW Update Methods		
4.10.14 FW Update Methods		
4.10.15 FW Update Methods		
4.10.16 FW Update Protections:		
4.10.17 FW Revision Rollback		
4.10.18 FW Revision Rollback		
4.10.19 FW Revision Rollback		
4.10.20 Flash Write Protect		
4.10.21 Flash Write Protect		
4.10.22 Flash Write Protect		

5 Boot

Setting	Help	Defaults
5.1 Boot Configuration		
5.2 Setup Prompt Timeout	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.	Default Value: • 1 Numeric Range: Minimum Value: 1 Maximum Value: 65535
5.3 Bootup NumLock State	Select the keyboard NumLock state	Possible Choices: • On • Off Default Value: • Off
5.4 Quiet Boot	Enables or disables Quiet Boot option	Possible Choices: • Disabled • Enabled Default Value: • Enabled
5.5 Fast Boot	Enables or disables boot with initialization of a minimal set of devices required to launch active boot option. Has no effect for BBS boot options.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
5.6 SATA Support	If Last Boot SATA Devices Only, Only last boot SATA device will be available in Post. If All SATA Devices, all SATA devices will be available in OS and Post.	Possible Choices: • Last Boot SATA Devices Only • All SATA Devices

		Default Value: • Last Boot SATA Devices Only
5.7 NVMe Support	If Disabled, NVMe device will be skipped.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
5.8 UFS Support	If Disabled, UFS device will be skipped.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
5.9 VGA Support	If Auto, only install Legacy OpRom with Legacy OS and logo would NOT be shown during post. Efi driver will still be installed with EFI OS.	Possible Choices: • Auto • EFI Driver Default Value: • EFI Driver
5.10 USB Support	If Disabled, all USB devices will NOT be available until after OS boot. If Partial Initial, USB Mass Storage and specific USB port/device will NOT be available before OS boot. If Enabled, all USB devices will be available in OS and Post.	Possible Choices: • Disabled • Full Initial • Partial Initial Default Value: • Full Initial
5.11 PS2 Devices Support	If Disabled, PS2 devices will be skipped.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
5.12 Network Stack Driver Support	If Disabled, NetWork Stack	

	Driver will be skipped.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
5.13 Redirection Support	If disable, Redirection function will be disabled.	Possible Choices: • Disabled • Enabled Default Value: • Disabled
5.14 Pei Display Support	If Disabled, Intel Pei Graphic Driver will be skipped.	Possible Choices: • Disabled • Enabled Default Value: • Enabled
5.15 Driver Option Priorities		
5.16 Driver Option #%d	Sets the system driver order	Possible Choices: • •
5.17 Boot mode select	Select boot mode LEGACY/UEFI	Possible Choices: • LEGACY • UEFI Default Value: • UEFI
5.18 FIXED BOOT ORDER Priorities		
5.19 Boot Option #1	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4

		• Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk
5.20 Boot Option #2	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk1
5.21 Boot Option #3	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk

		• USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk2
5.22 Boot Option #4	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk3
5.23 Boot Option #5	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network

		• Other Device • Disabled Default Value: • Hard Disk4
5.24 Boot Option #6	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk5
5.25 Boot Option #7	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value:

		• NVME
5.26 Boot Option #8	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • CD/DVD
5.27 Boot Option #9	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • SD
5.28 Boot Option #10	Sets the system boot order	Possible Choices:

		• Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • USB Hard Disk
5.29 Boot Option #11	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • USB CD/DVD
5.30 Boot Option #12	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4

		• Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • USB Key
5.31 Boot Option #13	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • USB Floppy
5.32 Boot Option #14	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk

		• USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • USB Lan
5.33 Boot Option #15	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Network
5.34 Boot Option #16	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network

		• Other Device • Disabled Default Value: • Other Device
5.35 Boot Option #1	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk
5.36 Boot Option #2	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value:

		• Hard Disk1
5.37 Boot Option #3	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk2
5.38 Boot Option #4	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk3
5.39 Boot Option #5	Sets the system boot order	Possible Choices:

		• Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk4
5.40 Boot Option #6	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Hard Disk5
5.41 Boot Option #7	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4

		• Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • NVME
5.42 Boot Option #8	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • CD/DVD
5.43 Boot Option #9	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk

		• USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • SD
5.44 Boot Option #10	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • USB Hard Disk
5.45 Boot Option #11	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network

		• Other Device • Disabled Default Value: • USB CD/DVD
5.46 Boot Option #12	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • USB Key
5.47 Boot Option #13	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value:

		• USB Floppy
5.48 Boot Option #14	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • USB Lan
5.49 Boot Option #15	Sets the system boot order	Possible Choices: • Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Network
5.50 Boot Option #16	Sets the system boot order	Possible Choices:

		• Hard Disk • Hard Disk1 • Hard Disk2 • Hard Disk3 • Hard Disk4 • Hard Disk5 • NVME • CD/DVD • SD • USB Hard Disk • USB CD/DVD • USB Key • USB Floppy • USB Lan • Network • Other Device • Disabled Default Value: • Other Device

6 Save & Exit

Setting	Help	Defaults
6.1 Save Options		
6.2 Default Options		
6.3 Boot Override		