

Edgecore AS7315-27X

Main PCB CPLD Specification

Revision 1.0



OPEN
Compute Project

Revision History

Revision	Date	Author	Description
1.0	9/25/2019	Jeff Catlin	Initial OCP Release

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Feature	AS7315-27X
CPU sub-system	CPU: Intel ® Atom™ Processor C3508,1.6GHZ DDR SDRAM: 8GB x 2 2400MHz with ECC (SO-DIMM) DDR4 SPI Flash (Boot): 16MB x 2 M.2 SSD: 32GB MLC TPM: SLB 9665XT2.0 FW5.63 INFINEON
Management	UART RS232 console port (RJ45), Out-band Management Ethernet port (RJ45), Alarm port on fantray (RJ45).
Timing	GNSS GPS Receiver(SMB), Stack Sync (RJ45), 1GE Stack (RJ45), BITS (RJ45), TOD PPS (RJ45)
MAC	BroadcomBCM88470, 300Gbsfull duplex switching
Ethernet Ports	3x100GE QSFP28 (two support stacking), 4x1/10/25G SFP28 and 20x1/10G SFP+
CPLD	Altera 5M2210ZF324I5N (FBGA324) and 5M1270ZF256I5 (FBGA256)
FPGA	Altera EP4CGX30CF23I7N
PCB	20-Layers, EM891Kfor Mainboard 14-Layers,CPU module 8-Layers,TG 150 Power Connection Board 4-Layers, TG 150 FAN Board 4-Layers, TG 150Backplane Board
Power Supply	Max 300W PSU, DC to DC, 1+1 redundant load-sharing, hot-swappable Notes: The airflow is left to right (PSU side is inlet) from chassis system view.
Cooling	5 fan-tray modules with 5 pcs of 40mm x40mm x 28mm 12V fans, hot-swappable
Dimension	L(Depth):299.8±0.5mm(11.8031±0.0196inch) x W(Width):438.4±0.5mm(17.259808 ± 0.0196 inch) x H(Height):43.25±0.5mm(1.7027±0.0196inch)

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CPLD locates on Main Board with connecting to CPU via I2C interface and I2C access address is 0x63. The following features are available with the CPLD:

- SFP+ Port LED Link/Act indicates for Port 00 to Port 15
- SFP28 Port LED Link/Act indicates for Port 16 to Port 23
- QSFP28 Port LED Link/Act indicates for Port 00 to Port 01
- Uplink Port rate LED indicates. (40G/100G)
- Interrupt
- I2C
- Reset

CPLD register

Address	Register	R/W	Default value
0x01	CPLD version	Read Only	0x02
0x10	SFP+_ PRESENT _Port00 ~07	Read Only	0xFF
0x11	SFP+_ TX_Fault _Port00 ~07	Read Only	0x00
0x12	SFP+_ TX_Disable _Port00 ~07	Read&Write	0x00
0x13	SFP+_ RX_LOSS _Port00 ~07	Read Only	0x00
0x14	SFP+_ PRESENT _Port08 ~16	Read Only	0xFF
0x15	SFP+_ TX_Fault _Port08 ~16	Read Only	0x00
0x16	SFP+_ TX_Disable _Port08 ~16	Read&Write	0x00
0x17	SFP+_ RX_LOSS _Port08 ~16	Read Only	0x00
0x18	SFP+_ PRESENT _Port17 ~23	Read Only	0xFF
0x19	SFP+_ TX_Fault _Port17 ~23	Read Only	0x00
0x1A	SFP+_ TX_Disable _Port17 ~23	Read&Write	0x00
0x1B	SFP+_ RX_LOSS _Port17 ~23	Read Only	0x00
0x1C	QSFP28_P00_Speed Configuration	Read Only	0x55
0x1D	QSFP28_P01_Speed Configuration	Read Only	0x55
0x20	QSFP28_Port00 Configuration	Read&Write	0x0B
0x21	QSFP28_Port00_Lane0-1 LED	Read&Write	0xFF
0x22	QSFP28_Port00_Lane2-3 LED	Read&Write	0xFF
0x23	QSFP28_Port01 Configuration	Read&Write	0x0B
0x24	QSFP28_Port01_Lane0-1 LED	Read&Write	0xFF
0x25	QSFP28_Port01_Lane2-3 LED	Read&Write	0xFF
0x26	SFP+_Port00 LED	Read&Write	0x03

Address	Register	R/W	Default value
0x27	SFP+_Port01 LED	Read&Write	0x03
0x28	SFP+_Port02 LED	Read&Write	0x03
0x29	SFP+_Port03 LED	Read&Write	0x03
0x2A	SFP+_Port04 LED	Read&Write	0x03
0x2B	SFP+_Port05 LED	Read&Write	0x03
0x2C	SFP+_Port06 LED	Read&Write	0x03
0x2D	SFP+_Port07 LED	Read&Write	0x03
0x2E	SFP+_Port08 LED	Read&Write	0x03
0x2F	SFP+_Port09 LED	Read&Write	0x03
0x30	SFP+_Port10 LED	Read&Write	0x03
0x31	SFP+_Port11 LED	Read&Write	0x03
0x32	SFP+_Port12 LED	Read&Write	0x03
0x33	SFP+_Port13 LED	Read&Write	0x03
0x34	SFP+_Port14 LED	Read&Write	0x03
0x35	SFP+_Port15 LED	Read&Write	0x03
0x36	SFP28_Port16 LED	Read&Write	0x03
0x37	SFP28_Port17 LED	Read&Write	0x03
0x38	SFP28_Port18 LED	Read&Write	0x03
0x39	SFP28_Port19 LED	Read&Write	0x03
0x3A	SFP28_Port20 LED	Read&Write	0x03
0x3B	SFP28_Port21 LED	Read&Write	0x03
0x3C	SFP28_Port22 LED	Read&Write	0x03
0x3D	SFP28_Port23 LED	Read&Write	0x03
0x50	Reset	Read Only	0x01

Address	Register	R/W	Default value

Table 1 CPLD I/O Register Table

Offset 0x01 CPLD version (Read Only)

Bit	Name	R/W	Reset Value	Description
7:0	CPLD_ver[7:0]	R	010	[7:3]: Reserved [2:0]: CPLD version

Offset 0x10 SFP+_PRESENT_Port00 ~07 (Read only)

Bit	Name	R/W	Reset Value	Description
7	MOD_ABS_08 (Port 07)	R	1	0: indicates which SFP+ has been installed. 1: No SFP+ install
6	MOD_ABS_07 (Port 06)	R	1	0: indicates which SFP+ has been installed. 1: No SFP+ install
5	MOD_ABS_06 (Port 05)	R	1	0: indicates which SFP+ has been installed. 1: No SFP+ install
4	MOD_ABS_05 (Port 04)	R	1	0: indicates which SFP+ has been installed. 1: No SFP+ install
3	MOD_ABS_04 (Port 03)	R	1	0: indicates which SFP+ has been installed. 1: No SFP+ install
2	MOD_ABS_03 (Port 02)	R	1	0: indicates which SFP+ has been installed. 1: No SFP+ install
1	MOD_ABS_02 (Port 01)	R	1	0: indicates which SFP+ has been installed. 1: No SFP+ install
0	MOD_ABS_01 (Port 00)	R	1	0: indicates which SFP+ has been installed. 1: No SFP+ install

Offset 0x11 TX_Fault_Port 00 ~07 (Read only)

Bit	Name	R/W	Reset Value	Description
7	TXFLT_08 (Port 07)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
6	TXFLT_07 (Port 06)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
5	TXFLT_06 (Port 05)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
4	TXFLT_05 (Port 04)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
3	TXFLT_04 (Port 03)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
2	TXFLT_03 (Port 02)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
1	TXFLT_02 (Port 01)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
0	TXFLT_01 (Port 00)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault

Offset 0x12 TX_Disable_Port 00 ~07 (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	TXDIS_08 (Port 07)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP module.

6	TXDIS_07 (Port 06)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
5	TXDIS_06 (Port 05)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
4	TXDIS_05 (Port 04)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
3	TXDIS_04 (Port 03)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
2	TXDIS_03 (Port 02)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
1	TXDIS_02 (Port 01)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
0	TXDIS_01 (Port 00)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.

Offset 0x13 RX_LOSS_Port00 ~07 (Read only)

Bit	Name	R/W	Reset Value	Description
7	RXLOS_08 (Port 07)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
6	RXLOS_07 (Port 06)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
5	RXLOS_06 (Port 05)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
4	RXLOS_05 (Port 04)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
3	RXLOS_04 (Port 03)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
2	RXLOS_03 (Port 02)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
1	RXLOS_02 (Port 01)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
0	RXLOS_01 (Port 00)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.

Offset 0x14 SFP+_PRESENT_Port08 ~15 (Read only)

Bit	Name	R/W	Reset Value	Description
7	MOD_ABS_16 (Port 15)	R	1	0: indicates which SFP has been installed. 1: No SFP install
6	MOD_ABS_15 (Port 14)	R	1	0: indicates which SFP has been installed. 1: No SFP install
5	MOD_ABS_14 (Port 13)	R	1	0: indicates which SFP has been installed. 1: No SFP install
4	MOD_ABS_13 (Port 12)	R	1	0: indicates which SFP has been installed.

				1: No SFP install
3	MOD_ABS_12 (Port 11)	R	1	0: indicates which SFP has been installed. 1: No SFP install
2	MOD_ABS_11 (Port 10)	R	1	0: indicates which SFP has been installed. 1: No SFP install
1	MOD_ABS_10 (Port 09)	R	1	0: indicates which SFP has been installed. 1: No SFP install
0	MOD_ABS_09 (Port 08)	R	1	0: indicates which SFP has been installed. 1: No SFP install

Offset 0x15 TX_Fault_Port08 ~15 (Read only)

Bit	Name	R/W	Reset Value	Description
7	TXFLT_16 (Port 15)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
6	TXFLT_15 (Port 14)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
5	TXFLT_14 (Port 13)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
4	TXFLT_13 (Port 12)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
3	TXFLT_12 (Port 11)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
2	TXFLT_11 (Port 10)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
1	TXFLT_10 (Port 09)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault
0	TXFLT_09 (Port 08)	R	0	0: SFP+ Transmitter is working well 1: SFP+ Transmit Fault

Offset 0x16 TX_Disable_Port 08 ~15 (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	TXDIS_16 (Port 15)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
6	TXDIS_15 (Port 14)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
5	TXDIS_14 (Port 13)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
4	TXDIS_13 (Port 12)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
3	TXDIS_12 (Port 11)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.
2	TXDIS_11 (Port 10)	R/W	0	When a value of "1" is written, will turn off the laser's power for each SFP module.

1	TXDIS_10 (Port 09)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP module.
0	TXDIS_09 (Port 08)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP module.

Offset 0x17 RX_LOSS_Port 08 ~15 (Read only)

Bit	Name	R/W	Reset Value	Description
7	RXLOS_16 (Port 15)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
6	RXLOS_15 (Port 14)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
5	RXLOS_14 (Port 13)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
4	RXLOS_13 (Port 12)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
3	RXLOS_12 (Port 11)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
2	RXLOS_11 (Port 10)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
1	RXLOS_10 (Port 09)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.
0	RXLOS_09 (Port 08)	R	0	0: SFP+ optical level meet the standard. 1: SFP+ optical level lower than the standard.

Offset 0x18 SFP28_PRESENT_Port16 ~23 (Read only)

Bit	Name	R/W	Reset Value	Description
7	MOD_ABS_24 (Port 23)	R	1	0: indicates which SFP28 has been installed. 1: No SFP28 install
6	MOD_ABS_23 (Port 22)	R	1	0: indicates which SFP28 has been installed. 1: No SFP28 install
5	MOD_ABS_22 (Port 21)	R	1	0: indicates which SFP28 has been installed. 1: No SFP28 install
4	MOD_ABS_21 (Port 20)	R	1	0: indicates which SFP28 has been installed. 1: No SFP28 install
3	MOD_ABS_20 (Port 19)	R	1	0: indicates which SFP28 has been installed. 1: No SFP28 install
2	MOD_ABS_19 (Port 18)	R	1	0: indicates which SFP28 has been installed. 1: No SFP28 install
1	MOD_ABS_18 (Port 17)	R	1	0: indicates which SFP28 has been installed. 1: No SFP28 install
0	MOD_ABS_17	R	1	0: indicates which SFP28 has been installed.

	(Port 16)			1: No SFP28 install
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Offset 0x19 SFP28 TX_Fault_Port 16 ~23 (Read only)

Bit	Name	R/W	Reset Value	Description
7	TXFLT_24 (Port 23)	R	0	0: SFP28 Transmitter is working well 1: SFP28 Transmit Fault
6	TXFLT_23 (Port 22)	R	0	0: SFP28 Transmitter is working well 1: SFP28 Transmit Fault
5	TXFLT_22 (Port 21)	R	0	0: SFP28 Transmitter is working well 1: SFP28 Transmit Fault
4	TXFLT_21 (Port 20)	R	0	0: SFP28 Transmitter is working well 1: SFP28 Transmit Fault
3	TXFLT_20 (Port 19)	R	0	0: SFP28 Transmitter is working well 1: SFP28 Transmit Fault
2	TXFLT_19 (Port 18)	R	0	0: SFP28 Transmitter is working well 1: SFP28 Transmit Fault
1	TXFLT_18 (Port 17)	R	0	0: SFP28 Transmitter is working well 1: SFP28 Transmit Fault
0	TXFLT_17 (Port 16)	R	0	0: SFP28 Transmitter is working well 1: SFP28 Transmit Fault

Offset 0x1A SFP28 TX_Disable_Port 16 ~23 (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	TXDIS_24 (Port 23)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP28 module.
6	TXDIS_23 (Port 22)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP28 module.
5	TXDIS_22 (Port 21)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP28 module.
4	TXDIS_21 (Port 20)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP28 module.
3	TXDIS_20 (Port 19)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP28 module.
2	TXDIS_19 (Port 18)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP28 module.
1	TXDIS_18 (Port 17)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP28 module.
0	TXDIS_17 (Port 16)	R/W	0	When a value of “1” is written, will turn off the laser’s power for each SFP28 module.

Offset 0x1B SFP28 RX_LOSS_Port 16 ~23 (Read only)

Bit	Name	R/W	Reset Value	Description
7	RXLOS_24 (Port 23)	R	0	0: SFP28 optical level meet the standard. 1: SFP28 optical level lower than the standard.
6	RXLOS_23	R	0	0: SFP28 optical level meet the standard.

	(Port 22)			1: SFP28 optical level lower than the standard.
5	RXLOS_22 (Port 21)	R	0	0: SFP28 optical level meet the standard. 1: SFP28 optical level lower than the standard.
4	RXLOS_21 (Port 20)	R	0	0: SFP28 optical level meet the standard. 1: SFP28 optical level lower than the standard.
3	RXLOS_20 (Port 19)	R	0	0: SFP28 optical level meet the standard. 1: SFP28 optical level lower than the standard.
2	RXLOS_19 (Port 18)	R	0	0: SFP28 optical level meet the standard. 1: SFP28 optical level lower than the standard.
1	RXLOS_18 (Port 17)	R	0	0: SFP28 optical level meet the standard. 1: SFP28 optical level lower than the standard.
0	RXLOS_17 (Port 16)	R	0	0: SFP28 optical level meet the standard. 1: SFP28 optical level lower than the standard.

Offset 0x1C QSFP28_Port 00_Speed Configuration (Read Only)

Bit	Name	R/W	Reset Value	Description
7	QSFP28_P01_lane3_Speed1 (LSB)(Port 00)	R	0	00: 10G 01: 20G 10: 25G
6	QSFP28_P01_lane3_Speed0 (MSB)(Port 00)	R	1	11: 1G
5	QSFP28_P01_lane2_Speed1 (LSB)(Port 00)	R	0	00: 10G 01: 20G 10: 25G
4	QSFP28_P01_lane2_Speed0 (MSB)(Port 00)	R	1	11: 1G
3	QSFP28_P01_lane1_Speed1 (LSB)(Port 00)	R	0	00: 10G 01: 20G 10: 25G
2	QSFP28_P01_lane1_Speed0 (MSB)(Port 00)	R	1	11: 1G
1	QSFP28_P01_lane0_Speed1 (LSB)(Port 00)	R	0	00: 10G 01: 20G 10: 25G
0	QSFP28_P01_lane0_Speed0 (MSB)(Port 00)	R	1	11: 1G

Offset 0x1D QSFP28_Port 01_Speed Configuration (Read Only)

Bit	Name	R/W	Reset Value	Description
7	QSFP28_P02_lane3_Speed1 (LSB)(Port 01)	R	0	00: 10G 01: 20G 10: 25G
6	QSFP28_P02_lane3_Speed0 (MSB)(Port 01)	R	1	11: 1G

5	QSFP28_P02_lane2_Speed1 (LSB)(Port 01)	R	0	00: 10G 01: 20G 10: 25G 11: 1G
4	QSFP28_P02_lane2_Speed0 (MSB)(Port 01)	R	1	
3	QSFP28_P02_lane1_Speed1 (LSB)(Port 01)	R	0	00: 10G 01: 20G 10: 25G 11: 1G
2	QSFP28_P02_lane1_Speed0 (MSB)(Port 01)	R	1	
1	QSFP28_P02_lane0_Speed1 (LSB)(Port 01)	R	0	00: 10G 01: 20G 10: 25G 11: 1G
0	QSFP28_P02_lane0_Speed0 (MSB)(Port 01)	R	1	

Offset 0x20 QSFP28_Port 01 Configuration (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	QSFP28_P01_lane3_Link-up/Activity (Port 00)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
6	QSFP28_P01_lane2_Link-up/Activity (Port 00)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
5	QSFP28_P01_lane1_Link-up/Activity (Port 00)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
4	QSFP28_P01_Lane_number_1 (LSB)(Port 00)	R	0	00: 1 lane 01: 2 lane 10: 4 lane 11: reserve
3	QSFP28_P01_Lane_number_0 (MSB)(Port 00)	R	1	
2	QSFP28_P01_lane0_Link-up/Activity(Port 00)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P01_100G_LED_G (Port 00)	R/W	1	11: There is no link on the port. 10: QSFP28 port has a valid link at 40G. 01: QSFP28 port has a valid link at 100G.
0	P01_40G_LED_B (Port 00)	R/W	1	

Bit0, 1 refer to below table (14 bits).
When

10 101 101 101 101

Green LED is on. (bit1=0)

When

10 001 001 001 001

Blue LED is on. (bit0=0)

0	1	2	3	4	5	6	7	8	9	10	11	12	13
Port 00		Port 00 Lane 0			Port 00 Lane 1			Port 00 Lane 2			Port 00 Lane 3		
Lane[1:0]		Speed [1:0]		Link-up/ Activity	Speed [1:0]		Link-up/ Activity	Speed [1:0]		Link-up/ Activity	Speed [1:0]		Link-up/ Activity

Offset 0x21 QSFP28_Port 00_Lane0-1 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7:6	(reserved)	R	0	
5	P01_LANE1_LED_R (Port 00)	R/W	1	111: There is no link on the port. 001: QSFP28 port has a valid link at 25G. 010: QSFP28 port has a valid link at 10G. Flashing indicates activity.
4	P01_LANE1_LED_G (Port 00)	R/W	1	
3	P01_LANE1_LED_B (Port 00)	R/W	1	
2	P01_LANE0_LED_R (Port 00)	R/W	1	111: There is no link on the port. 001: QSFP28 port has a valid link at 25G. 010: QSFP28 port has a valid link at 10G. Flashing indicates activity.
1	P01_LANE0_LED_G (Port 00)	R/W	1	
0	P01_LANE0_LED_B (Port 00)	R/W	1	

Offset 0x22 QSFP28_Port 00_Lane2-3 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7:6	(reserved)	R	0	
5	P01_LANE3_LED_R (Port 00)	R/W	1	111: There is no link on the port. 001: QSFP28 port has a valid link at 25G. 010: QSFP28 port has a valid link at 10G. Flashing indicates activity.
4	P01_LANE3_LED_G (Port 00)	R/W	1	

3	P01_LANE3_LED_B (Port 00)	R/W	1	111: There is no link on the port. 001: QSFP28 port has a valid link at 25G. 010: QSFP28 port has a valid link at 10G. Flashing indicates activity.
2	P01_LANE2_LED_R (Port 00)	R/W	1	
1	P01_LANE2_LED_G (Port 00)	R/W	1	
0	P01_LANE2_LED_B (Port 00)	R/W	1	

Offset 0x23 QSFP28_Port 01 configuration (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	QSFP28_P02_lane3_Link-up/Activity (Port 01)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
6	QSFP28_P02_lane2_Link-up/Activity (Port 01)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
5	QSFP28_P02_lane1_Link-up/Activity (Port 01)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
4	QSFP28_P02_Lane_number_1 (LSB)(Port 01)	R	0	00: 1 lane 01: 2 lane 10: 4 lane
3	QSFP28_P02_Lane_number_0 (MSB)(Port 01)	R	1	11: reserve
2	QSFP28_P02_lane0_Link-up/Activity (Port 01)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P02_100G_LED_G (Port 01)	R/W	1	11: There is no link on the port. 10: QSFP28 port has a valid link at 40G.
0	P02_40G_LED_B (Port 01)	R/W	1	01: QSFP28 port has a valid link at 100G.

Bit0, 1 refer to below table (14 bits).

When

10 101 101 101 101

Green LED is on. (bit1=0)

When

10 001 001 001 001

Blue LED is on. (bit0=0)

0	1	2	3	4	5	6	7	8	9	10	11	12	13
Port 01		Port 01 Lane 0			Port 01 Lane 1			Port 01 Lane 2			Port 01 Lane 3		
Lane[1:0]		Speed [1:0]		Link-up/ Activity	Speed [1:0]		Link-up/ Activity	Speed [1:0]		Link-up/ Activity	Speed [1:0]		Link-up/ Activity

Offset 0x24 QSFP28_Port 01_Lane0-1 (Read& Write)

Bit	Name	R/W	Reset Value	Description
7:6	(reserved)	R	0	
5	P02_LANE1_LED_R (Port 01)	R/W	1	111: There is no link on the port. 001: QSFP28 port has a valid link at 25G. 010: QSFP28 port has a valid link at 10G. Flashing indicates activity.
4	P02_LANE1_LED_G (Port 01)	R/W	1	
3	P02_LANE1_LED_B (Port 01)	R/W	1	
2	P02_LANE0_LED_R (Port 01)	R/W	1	111: There is no link on the port. 001: QSFP28 port has a valid link at 25G. 010: QSFP28 port has a valid link at 10G. Flashing indicates activity.
1	P02_LANE0_LED_G (Port 01)	R/W	1	
0	P02_LANE0_LED_B (Port 01)	R/W	1	

Offset 0x25 QSFP28_Port 01_Lane2-3 (Read& Write)

Bit	Name	R/W	Reset Value	Description
7:6	(reserved)	R	0	
5	P02_LANE3_LED_R (Port 01)	R/W	1	111: There is no link on the port. 001: QSFP28 port has a valid link at 25G. 010: QSFP28 port has a valid link at 10G. Flashing indicates activity.
4	P02_LANE3_LED_G (Port 01)	R/W	1	
3	P02_LANE3_LED_B (Port 01)	R/W	1	
2	P02_LANE2_LED_R (Port 01)	R/W	1	111: There is no link on the port. 001: QSFP28 port has a valid link at 25G. 010: QSFP28 port has a valid link at 10G. Flashing indicates activity.
1	P02_LANE2_LED_G (Port 01)	R/W	1	

0	P02_LANE2_LED_B (Port 01)	R/W	1	
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Offset 0x26 SFP+_Port 00 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P1_Speed1(Port 00)	R	0	00: 10G
5	SFP+_P1_Speed0(Port 00)	R	0	11: 1G
4	SFP+_P1-4_Lane_number_1 (Port 00-03)	R	0	00: 1 lane
3	SFP+_P1-4_Lane_number_0 (Port 00-03)	R	0	
2	SFP+_P1_Link-up/Activity (Port 00-03)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P1_LED_SFP+_A (Port 00)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P1_LED_SFP+_G (Port 00)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x27 SFP+_Port 01 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P2_Speed1(Port 01)	R	0	00: 10G
5	SFP+_P2_Speed0(Port 01)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P2_Link-up/Activity (Port 01)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P2_LED_SFP+_A (Port 01)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P2_LED_SFP+_G (Port 01)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x28 SFP+_Port 02 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
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7	(Reserved)	R/W	0	
6	SFP+_P3_Speed1(Port 02)	R	0	00: 10G
5	SFP+_P3_Speed0(Port 02)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P3_Link-up/Activity (Port 02)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P3_LED_SFP+_A (Port 02)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P3_LED_SFP+_G (Port 02)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x29 SFP+_Port4 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P4_Speed1(Port 03)	R	0	00: 10G
5	SFP+_P4_Speed0(Port 03)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P4_Link-up/Activity (Port 03)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P4_LED_SFP+_A (Port 03)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P4_LED_SFP+_G (Port 03)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x2A SFP+_Port 04 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P5_Speed1(Port 04)	R	0	00: 10G
5	SFP+_P5_Speed0(Port 04)	R	0	11: 1G
4	SFP+_P5-8_Lane_number_1 (Port 04-07)	R	0	00: 1 lane
3	SFP+_P5-8_Lane_number_0 (Port 04-07)	R	0	

2	SFP+_P5_Link-up/Activity (Port 04)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P5_LED_SFP+_A (Port 04)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P5_LED_SFP+_G (Port 04)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x2B SFP+_Port 05 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P6_Speed1(Port 05)	R	0	00: 10G
5	SFP+_P6_Speed0(Port 05)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P6_Link-up/Activity (Port 05)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P6_LED_SFP+_A (Port 05)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P6_LED_SFP+_G (Port 05)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x2C SFP+_Port 06 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P7_Speed1(Port 06)	R	0	00: 10G
5	SFP+_P7_Speed0(Port 06)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P7_Link-up/Activity (Port 06)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P7_LED_SFP+_A (Port 06)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P7_LED_SFP+_G (Port 06)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G.

				Flashing indicates activity.
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Offset 0x2D SFP+_Port 07 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P8_Speed1(Port 07)	R	0	00: 10G
5	SFP+_P8_Speed0(Port 07)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P8_Link-up/Activity (Port 07)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P8_LED_SFP+_A (Port 07)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P8_LED_SFP+_G (Port 07)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x2E SFP+_Port 08 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P9_Speed1(Port 08)	R	0	00: 10G
5	SFP+_P9_Speed0(Port 08)	R	0	11: 1G
4	SFP+_P9_Lane_number_1 (Port 08)	R	0	00: 1 lane
3	SFP+_P9_Lane_number_0 (Port 08)	R	0	
2	SFP+_P9_Link-up/Activity (Port 08)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P9_LED_SFP+_A (Port 08)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P9_LED_SFP+_G (Port 08)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x2F SFP+_Port 09 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
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7	(Reserved)	R/W	0	
6	SFP+_P10_Speed1(Port 09)	R	0	00: 10G
5	SFP+_P10_Speed0(Port 09)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P10_Link-up/Activity (Port 09)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P10_LED_SFP+_A (Port 09)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P10_LED_SFP+_G (Port 09)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x30 SFP+_Port 10 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P11_Speed1(Port 10)	R	0	00: 10G
5	SFP+_P11_Speed0(Port 10)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P11_Link-up/Activity (Port 10)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P11_LED_SFP+_A (Port 10)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P11_LED_SFP+_G (Port 10)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x31 SFP+_Port 11 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P12_Speed1(Port 11)	R	0	00: 10G
5	SFP+_P12_Speed0(Port 11)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P12_Link-up/Activity (Port 11)	R	0	0: The Led light is off. 1: The Led light is on.

				Toggle: Activity
1	P12_LED_SFP+_A (Port 11)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P12_LED_SFP+_G (Port 11)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x32 SFP+_Port 12 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P13_Speed1(Port 12)	R	0	00: 10G
5	SFP+_P13_Speed0(Port 12)	R	0	11: 1G
4	SFP+_P13_Lane_number_1 (Port 12)	R	0	00: 1 lane
3	SFP+_P13_Lane_number_0 (Port 12)	R	0	
2	SFP+_P13_Link-up/Activity (Port 12)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P13_LED_SFP+_A (Port 12)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P13_LED_SFP+_G (Port 12)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x33 SFP+_Port 13 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P14_Speed1(Port 13)	R	0	00: 10G
5	SFP+_P14_Speed0(Port 13)	R	0	11: 1G
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P14_Link-up/Activity (Port 13)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P14_LED_SFP+_A (Port 13)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P14_LED_SFP+_G (Port 13)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x34 SFP+_Port 15 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P15_Speed1(Port 14)	R	0	00: 10G 11: 1G
5	SFP+_P15_Speed0(Port 14)	R	0	
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P15_Link-up/Activity (Port 14)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P15_LED_SFP+_A (Port 14)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P15_LED_SFP+_G (Port 14)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x35 SFP+_Port16 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P16_Speed1(Port 15)	R	0	00: 10G 11: 1G
5	SFP+_P16_Speed0(Port 15)	R	0	
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P16_Link-up/Activity (Port 15)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P16_LED_SFP+_A (Port 15)	R/W	1	1: There is no link on the port. 0: Amber SFP+ port has a valid link at 1G. Flashing indicates activity.
0	P16_LED_SFP+_G (Port 15)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x36 SFP28_Port 16 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P17_Speed1 (SFP28_Port 16)	R	0	00: 10G 10: 25G
5	SFP+_P17_Speed0 (SFP28_Port 16)	R	0	

4	SFP+_P17_Lane_number_1 (SFP28_Port 16)	R	0	00: 1 lane
3	SFP+_P17_Lane_number_0 (SFP28_Port 16)	R	0	
2	SFP+_P17_Link-up/Activity (SFP28_Port 16)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P17_LED_SFP+_A (SFP28_Port 16)	R/W	1	1: There is no link on the port. 0: Blue SFP+ port has a valid link at 25G. Flashing indicates activity.
0	P17_LED_SFP+_G (SFP28_Port 16)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x37 SFP28_Port 17 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P18_Speed1 (SFP28_Port 17)	R	0	00: 10G 10: 25G
5	SFP+_P18_Speed0 (SFP28_Port 17)	R	0	
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P18_Link-up/Activity (SFP28_Port 17)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P18_LED_SFP+_A (SFP28_Port 17)	R/W	1	1: There is no link on the port. 0: Blue SFP+ port has a valid link at 25G. Flashing indicates activity.
0	P18_LED_SFP+_G (SFP28_Port 17)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x38 SFP28_Port 18 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P19_Speed1 (SFP28_Port 18)	R	0	00: 10G 10: 25G
5	SFP+_P19_Speed0 (SFP28_Port 18)	R	0	
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P19_Link-up/Activity (SFP28_Port 18)	R	0	0: The Led light is off. 1: The Led light is on.

				Toggle: Activity
1	P19_LED_SFP+_A (SFP28_Port 18)	R/W	1	1: There is no link on the port. 0: Blue SFP+ port has a valid link at 25G. Flashing indicates activity.
0	P19_LED_SFP+_G (SFP28_Port 18)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x39 SFP28_Port 19 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P20_Speed1 (SFP28_Port 19)	R	0	00: 10G 10: 25G
5	SFP+_P20_Speed0 (SFP28_Port 19)	R	0	
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P20_Link-up/Activity (SFP28_Port 19)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P20_LED_SFP+_A (SFP28_Port 19)	R/W	1	1: There is no link on the port. 0: Blue SFP+ port has a valid link at 25G. Flashing indicates activity.
0	P20_LED_SFP+_G (SFP28_Port 19)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x3A SFP28_Port 20 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P21_Speed1 (SFP28_Port 20)	R	0	00: 10G 10: 25G
5	SFP+_P21_Speed0 (SFP28_Port 20)	R	0	
4	SFP+_P21_Lane_number_1 (SFP28_Port 20)	R	0	
3	SFP+_P21_Lane_number_0 (SFP28_Port 20)	R	0	
2	SFP+_P21_Link-up/Activity (SFP28_Port 20)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P21_LED_SFP+_A (SFP28_Port 20)	R/W	1	1: There is no link on the port. 0: Blue SFP+ port has a valid link at 25G. Flashing indicates activity.

0	P21_LED_SFP+_G (SFP28_Port 20)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.
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Offset 0x3B SFP28_Port 21 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P22_Speed1 (SFP28_Port 21)	R	0	00: 10G 10: 25G
5	SFP+_P22_Speed0 (SFP28_Port 21)	R	0	
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P22_Link-up/Activity (SFP28_Port 21)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P22_LED_SFP+_A (SFP28_Port 21)	R/W	1	1: There is no link on the port. 0: Blue SFP+ port has a valid link at 25G. Flashing indicates activity.
0	P22_LED_SFP+_G (SFP28_Port 21)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x3C SFP28_Port 22 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P23_Speed1 (SFP28_Port 22)	R	0	00: 10G 10: 25G
5	SFP+_P23_Speed0 (SFP28_Port 22)	R	0	
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P23_Link-up/Activity (SFP28_Port 22)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P23_LED_SFP+_A (SFP28_Port 22)	R/W	1	1: There is no link on the port. 0: Blue SFP+ port has a valid link at 25G. Flashing indicates activity.
0	P23_LED_SFP+_G (SFP28_Port 22)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x3D SFP28_Port 23 LED (Read& Write)

Bit	Name	R/W	Reset Value	Description
7	(Reserved)	R/W	0	
6	SFP+_P24_Speed1 (SFP28_Port 23)	R	0	00: 10G 10: 25G
5	SFP+_P24_Speed0 (SFP28_Port 23)	R	0	
4	(Reserved)	R/W	0	
3	(Reserved)	R/W	0	
2	SFP+_P24_Link-up/Activity (SFP28_Port 23)	R	0	0: The Led light is off. 1: The Led light is on. Toggle: Activity
1	P24_LED_SFP+_A (SFP28_Port 23)	R/W	1	1: There is no link on the port. 0: Blue SFP+ port has a valid link at 25G. Flashing indicates activity.
0	P24_LED_SFP+_G (SFP28_Port 23)	R/W	1	1: There is no link on the port. 0: Green SFP+ port has a valid link at 10G. Flashing indicates activity.

Offset 0x50 Reset(Read& Write)

Bit	Name	R/W	Reset Value	Description
7:1	(Reserved)	R/W	0	
0	CPLD_RST	R/W	1	1: The Device is in normal operating state 0: The Device is in reset state