25.78Gbps SFP+ 400m Transceiver

CLSFP25GXSR

Product Features:

- Supports 25GBASEXSR(25Gb/s);
- Lane bit rate 25.78 Gb/s;
- Maximum link length of 150m~400m on OM4 MMF;
- 850nm VCSEL laser and PIN photo-detector;
- High speed I/O electrical interface (25GAUI);
- I2C interface with integrated Digital Diagnostic monitoring;
- SFP28 MSA package with duplex LC connector;
- Maximum power consumption 1.0W;
- Single +3.3V power supply;
- Operating case temperature: Refer to Order info.
- Compliant to IEEE 802.3cc Draft3.0, SFF-8402 and SFF-8432;
- Complies with EU Directive 2011/65/EU (RoHS 6/6);

Functional Characteristics (Optical)

The following tables list the performance specifications for the various functional blocks of the integrated optical transceiver module.

Table 1 – Transmitter Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Center Wavelength	λ	840	850	860	nm	
Average Launch Power		-5	-	3	dBm	1
Optical Modulation Amplitude	OMA	-5	-	3	dBm	1
Average Output Power (Laser Turn off)	Poff	-	-	-30	dBm	
Extinction Ratio	ER	4	-	-	dB	
Transmitter and dispersion penalty (TDP)	TDP	-	-	4.3	dB	
Optical Return Loss Tolerance	ORLT	-	-	12	dB	
Optical Eye Mask	Compliant with IEEE 802.3cc Draft 3.0					

Note 1: Class 1 Laser Safety limit per FDA/CDRH, and EN (IEC) 60825 laser safety standards.

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Center Wavelength	λ	840	850	860	nm	

Average Rx Power		-11	-	2.4	dBm	2
Receiver sensitivity (OMA)	Rx Sense	-8.5	-	-	dBm	2
Receiver Overload	PIN-OL	3.4	-	-	dBm	
Reflectance	Ref	-	-	-12	dB	
LOS Assert per lane	LOSA	-30	-	-	dBm	
LOS De-assert	LOSD	-	-	-17	dBm	
LOS Hysteresis	LOSH	0.5	-	4	dB	

Note 2: Informative Only

Ordering Information

Table 3 - Ordering Information

Part No.	Application	Data Rate	Laser Source	Fiber Type
CLSFP25GXSR	25GBase-XSR CPRI	25.78Gbps	850nm VCSEL	Multi Mode Fiber

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