

25Gbps SFP+ 10km Transceiver CLSFP25GLR

Product Features

- Supports 25GBASE-LR(25Gb/s);
- Lane bit rate 25.78 Gb/s;
- Up to 10km transmission on SMF;
- DFB 1310nm laser and PIN receiver;
- High speed I/O electrical interface (25GAUI);
- I2C interface with integrated Digital Diagnostic monitoring;
- SFP28 MSA package with duplex LC connector;
- Single +3.3V power supply; Maximum power consumption 1.2 W;
- Compliant to IEEE 802.3cc Draft3.0, SFF-8402 and SFF-8432;
- Bit error rate 10^{-12} and Failure rate < 700FITs
- Operate case temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$



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_0	1295	1310	1325	nm	
Average Launch Power	PTX_LANE	-5	-	2	dBm	1,2
Spectral Width (-20dB)	σ	-	-	1	dBm	3
Average Output Power (Laser Turn off)	Pout-OFF	-	-	-30	dBm	
Side Mode Suppression Ratio	SMSR	30	-	-	dB	
Extinction Ratio, 100GE	ER	3.5	-	-	dB	
Transmitter and dispersion penalty (TDP)	TDP	-	-	2.7	dB	
Optical Return Loss Tolerance	ORLT	-	-	20	dB	

Note 1: Average launch power, each lane (min) is informative and not the principal indicator of signal strength

Note 2: Transmitter reflectance is defined looking into the transmitt

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Center Wavelength	λ_0	1295	1310	1325	nm	
Receiver sensitivity (OMA)		-	-	-11.3	dBm	5
Stress sensitivity (OMA)		-	-	-8.8	dBm	6
Receiver Overload	PIN-OL	-2	-	-	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 1: Measured with conformance test signal at TP3for the BER= 6.4×10^{-5} .



Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	Laser	Fiber Type	Distance	Optical Interface	Temp	DDMI
CLSFP25GLR	25.78Gbps	1310nm DFB	SMF	10KM	LC	0~70 °C	Yes

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