

25.78Gbps SFP+ 100m Transceiver CLSFP25GSR

Product Features

- Supports 25GBASE-SR(25Gb/s);
- Lane bit rate 25.78 Gb/s;
- Maximum link length of 70m on OM3 MMF and 100m 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
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)	P _{off}	-	-	-30	dBm	
Extinction Ratio	ER	4	-	-	dB	
Transmitter and dispersion penalty (TDP)	TDP	-	-	4.3	dB	
Optical Return Loss Tolerance	ORLT	-	-	12	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	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 1: Measured with conformance test signal at TP3 for the BER= 6.4x10⁻⁵.



Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	Laser	Fiber Type	Distance	Optical Interface	Temp	DDMI
CLSFP25GSR	25.78Gbps	850nm	MMF	100m	LC	0~70 °C	Yes

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