

16G FC 1310nm 10KM SFP+ Transceiver CLSFP16GLR

Product Features

- Up to 16 Gb/s bi-directional data links
- Hot-pluggable SFP+ footprint
- Built-in digital diagnostic functions
- 1310nm DFB laser transmitter
- Duplex LC connector
- RoHS compliant and Lead Free
- Up to 10 km on 9/125 μ m SMF
- Metal enclosure, for lower EMI
- 1W maximum power consumption with established link
- Single 3.3V power supply
- Operating temperature range: 0°C to 70°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	Note
Centre Wavelength	λ_c	1295	1310	1325	nm	1,2
Spectral Width (-20dB)	σ			1	nm	3
Output Opt. Power, 16 Gb/s	PO,RH	-5.0		+2.0	dBm	4
Output Opt. Power, 4.25, 8.5 Gb/s	PO,RL	-5.0		-1.0	dBm	4,5
Optical Modulation Amplitude, 16Gb/s	OMA	631			W	6
Optical Modulation Amplitude, 4.25, 8.5 Gb/s	OMA	290			W	4,6
Transmitter and Dispersion Penalty, 16 Gb/s	TDP			4.4	dB	7
Transmitter and Dispersion Penalty, 8.5 Gb/s	TDP			3.2	dB	7
Optical Rise/Fall Time, 4.25 Gb/s	tr/ tf			90	ps	8
RIN				-130	dB/Hz	

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	Note
Unstressed Receiver OMA Sensitivity, 16 Gb/s	RSENSr			-12	dBm	
Unstressed Receiver OMA Sensitivity, 8.5 Gb/s	RSENSr			-13.5	dBm	9
Unstressed Receiver OMA Sensitivity, 4.25 Gb/s	RSENS4			-15.4	dBm	9



Average Received Power	RxMAX			+2.0	dBm	
Optical Center Wavelength		1260		1370	nm	
Return Loss		12			dB	
LOS De-Assert	LOSD			-21	dBm	
LOS Assert	LOSA	-24			dBm	
LOS Hysteresis		0.5			dB	

Note 1: Measured with conformance test signal at TP3for the BER= 6.4x10⁻⁵.

Ordering Information

Table 3 - Ordering Information

Part No.	Data Rate	DDM	Wave	Fiber Type	Dist.	Temp.	Optical Interface
CLSFP16GLR	16G FC	Yes	1310nm	SMF	10km	0~70℃	LC

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