

QSFP28 100GE LR4 SMF 2km, MMF 100m CL100GQSFP4LRM4

Product Features:

- Hot-pluggable QSFP28 form factor
- Supports 103.1 Gb/s
- Power dissipation < 3.5W
- RoHS-6 compliant
- Commercial case temperature range of 0°C to 70°C
- Single 3.3V power supply
- Maximum link length of SMF 2km, MMF 100m
- 4x25Gb/s EML-based LAN-WDM transmitter
- 4x25G retimed electrical interface
- Duplex LC receptacles
- I2C management interface

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
Signaling Speed per Chanel		25.78± 100 ppm			Gb/s	1
Center Wavelength	λ_0	1294.53	1295.56	1296.59	nm	
Center Wavelength	λ_1	1299.02	1300.05	1301.09	nm	
Center Wavelength	λ_2	1303.54	1304.58	1305.63	nm	
Center Wavelength	λ_3	1308.09	1309.14	1310.19	nm	
Total Launch Power,	P _{out}	-	-	10.5	dBm	
Average LaunchPower per Lane,	PTX LANE_	0.1	-	4.5	dBm	5
OMA per Lane,	OMA	0.1	-	4.5	dBm	
Difference in launch power between lanes	PTX DELTA LANE_	-	-	5	dB	
Average Output Power (Laser Turn	P _{out} -OFF	-	-	-30	dBm	
Side Mode	SMSR	30	-	-	dB	

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min	Typ	Max
Signaling Speed per Lane		25.78± 100 ppm	Gb/s	3
Lane center wavelengths (range)		1294.53 – 1296.591299.02 – 1301.091303.54 – 1305.631308.09 –	nm	



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Average Receive Power per Lane	RXPx	-15		4.5	dBm	4,5
Receiver Sensitivity (OMA) perLane on SMF	Rxsens			-8	dBm	2
Receiver Sensitivity (OMA) perLane on MMF	Rxsens			-5	ddBm	2
Return Loss	RL	-26			dB	
Stressed Receiver Sensitivity(OMA) per Lane	SRS			-7	dBm	2
Receive electrical 3 dB upper cutoff frequency, per lane				31	GHz	

Ordering Information

Table 3 - Ordering Information

Part Number	Product Description
CL100GQSFPLRM4	100Gbps Ethernet QSFP28 SMF 2km, MMF 100m, 0°C~+70°C

CONTACT:

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