C-LIGHT®

Color Light Communication - Faster · Smarter · Brighter

Telecom FTTx DWDM Data Center

100G/40Gbps QSFP SR4 Transceiver

CLQ100/40GSR4

Features:

- 4 x 25.78125Gbps or 4 x 10.3125Gbps electrical interface
- MTP/MPO optical connector
- QSFP28/QSFP+ MSA compliant
- Four independent full-duplex channels
- 100Gbps or 40Gbps aggregate bit rate
- Digital Diagnostic Monitoring
- Link length of 70m over OM3 Multi-mode Fiber or 100m over OM4 Multi-mode Fiber
- Single +3.3V power supply
- Operating case temperature from 0℃~70℃
- Low power consumption < 2.5W
- RoHS-6 compliant

Applications:

- Data Center and Cloud services
- 100GBASE/40GBASE-SR4 Ethernet
- Servers, Switches, Storage and Host Card Adapters

Functional Characteristics (Optical)

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

Transmitter

Parameter	Sym.	Min	Typ.	Max	Unit	
Center Wavelength	λt	840	850	860	nm	
RMS Spectral Width	Λλt	-	-	0.6	nm	
Average Optical Power, each Lane	Pavg	-8.4	-	+2.4	dBm	
Optical Modulation Amplitude (OMA)	Poma	-6.4	-	+3	dBm	
Extinction Ratio	ER	3	-	-	dB	
Transmitter Eye Mask Definition	Compli ed with IEEE8 0 2 .3 bm					
Average Launch Power OFF Transmitter, each Lane	Poff	-	-	-30	dBm	

Receiver

Parameter	Sym.	Min	Typ.	Max	Unit	
Center Wavelength	Λr	840	850	860	nm	
Average Power at Receiver Input, each Lane		- 10.5	-	2.4	dBm	
Receiver Reflectance		-	-	- 12	dB	
Overload	Psat			2.4	dBm	
Los Assert	LosA	-30	-	-	dBm	
Los Dessert	LosD	-	-	- 10	dBm	

Los Hysteresis	LosH	0.5	-	4	dB	

*If you want to use this module in 100G or 40G working status, EEPROM P0 page should be edit to correct 100G or 40G information in advance.

Ordering information

Part Number	Product Description			
CLQ100/40GSR4	1 00 Gbps/40Gbps Ethernet QSFP SR4, 100 m, 0C~+70C			

CONTACT:

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