

40Gbps QSFP+ SR4 MMF Transceiver

CLQSFP40GSR4

Product Features:

- Supports 41.25Gb/s aggregate bit rate
- Multirate capability: 1.06Gb/s to 10.5Gb/s per channel
- Maximum link length of 100m links on OM3 multimode fiber or 150m links on OM4 multimode fiber
- High Reliability 850nm VCSEL technology
- Unretimed XLPP electrical interface
- Single MPO-12 receptacle
- Digital diagnostic SFF-8436 compliant
- Case operating temperature range: 0°C to +70°C
- Maximum Power dissipation < 1.5 W
- RoHS Compliant



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_{out}	840		860	nm	
Average Launch Power each lane		-7.6		2.4	dBm	
Spectral Width (RMS)	σ			0.65	nm	
Optical Extinction Ratio	ER	3			dB	
Transmitter and Dispersion Penalty each lane	TDP			3.5	dB	
Optical Return Loss Tolerance	ORL			12	dB	
Transmitter eye mask definition {X1, X2, X3, Y1, Y2, Y3}	0.23,0.34,0.43,0.27,0.35,0.4					

Notes: Measured with a PRBS 231-1 test pattern, @10.3125Gb/s, BER<1E-12.

Table 2 – Receiver Optical Specifications

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Receiver Wavelength	λ_{in}	840		860	nm	
Receiver sensitivity in OMA	SOMA			-11.5	dBm	1
LOS Assert	LOSA	-30			dBm	
LOS De-Assert	LOSD			-12	dBm	
LOS Hysteresis		0.5			dB	
Input Saturation Power (Overload)	Psat	2.4			dBm	
Receiver Reflectance	Rr			-12	dB	



Ordering Information

Table 3 - Ordering Information

Part No.	Pack	Rate* (Gbps)	Po (dBm)	RX	Sen*(dBm)	Temp (°C)	Reach (m)	DDM
CLQSFP40GSR4	QSFP+	10.3125	-7.6~2.4	PIN	<-11.5	0~+70	100~150	Yes

CONTACT:

Email: sales@c-light.com <https://www.c-light.com>