

## QSFP56 SR4 200G MPO-12, 850nm, OM4, 100m CL200GQ56SR4

### Product Features:

- Up to 200Gb/s data rate
- 4x50Gb/s PAM4 modulation
- Maximum link length of 100m on OM4 MMF
- SFF-8665 compliant QSFP56 port
- CMIS4.0 compliant I2C management
- Single 3.3V Power Supply
- 4.5W power dissipation each end, with retiming
- Operating case temperature: 0° C to 70 ° C
- Hot pluggable
- RoHS complian

### 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
Bit Rate	BR	-	26.5625 ± 100 ppm	-	GBd	PAM4
Center Wavelength Range	$\lambda_c$	840	850	860	nm	1
RMS Spectral Width	$\Delta \lambda$	-	-	0.6	nm	1
Average Launch power Tx off	P <sub>off</sub>	-	-	-30	dBm	1
Average Optical Power, each lane	P <sub>0</sub>	-6	-	4	dBm	1
Outer Optical Modulation Amplitude (OMA <sub>outer</sub> ), each lane	OMA (outer)	-4	-	3	dBm	1
Launch power in OMA <sub>outer</sub> minus TDECQ	OMA-T DECQ	-5.9	-	-	dBm	1
Transmitter and dispersion eye closure (TDECQ), each lane	TDECQ	-	-	4.9	dB	1
Extinction Ratio, each lane	ER	3.0	-	-	dB	1
Optical return loss tolerance	ORL			12	dB	

Note 1: SSPRQ@26.5625Gbd PAM4

**Table 2 – Receiver Optical Specifications**

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Bit Rate	BR	-	26.5625 ± 100 ppm	-	GBd	PAM4
Center Wavelength Range	$\lambda_c$	840	850	860	nm	
Damage threshold	DT	5	-	-	dBm	
Average receive power, each lane	PIN	-7.9	-	4	dBm	



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Receive power, each lane (OMAouter)	PINOMA	-	-	3	dBm	
Receive Sensitivity (OMAouter), each lane	Sen	-	-	-6	dBm	1
Stressed receiver sensitivity (OMAouter), each lane	SenSTR	-	-	-3	dBm	1
Receiver reflectance	RF	-	-	-12	dB	

Note 1: Average receive power, (min) is informative and not the principal indicator of signal strength

## Ordering Information

Table 3 - Ordering Information

Part No.	Transmitter	Output Power	Receiver	Sensitivit	Reach	Temp	DDM	RoHS
CL200GQ56SR4	850nmVCSEL	-6~4dB	PIN	<-6dBm	100mOM4	0~ 70℃	Available	Compliant

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