DATA SHEET

Transceivers
40G QSFP+ PLR4
CQS-801A08

Properties

- Multi-protocol support
- Data rate 39.6 Gbps to 45.2 Gbps
- Reach up to 10km
- Wavelength 1310nm
- MPO/MTP-8/12 (APC) connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 8 dB



General data	
Form factor	QSFP+
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	40G Ethernet, OTU3
Data rate standards	40GBASE-PLR4
Media type	Singlemode
Connector	MTP/MPO-8/12 (APC)
Modulation Format	NRZ
Built-in FEC	No
CDR	none
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.15 V ... 3.45 V
Supply Current	< 1000 mA
Power consumption	< 3.5 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.5 V ... 3.6 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 85 %

Transmitter Specifications	
Laser Type	DML
Operating Wavelength Range	1260 nm ... 1355nm
Grid	None
Average launch power per lane	-5.5 dBm ... 1.5 dBm

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Transmitter Specifications	
Outer Optical Modulation Amplitude (OMA)	-4.5 dBm ... 2.5 dBm
Extinction Ratio	> 3.5 dB
Side Mode Suppression	> 30 dB
Supported Data rate	39.8 Gbps ... 45.2 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1355nm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -15 dBm
Receiver LOS Assert	> -30 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	39.8 Gbps ... 45.2 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQS-801A08xxxx-13	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-13: 1310nm

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