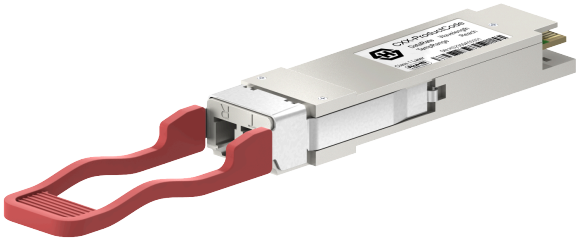
DATA SHEET

Transceivers
40G QSFP+ ER4 lite
CQS-804A18

Properties

- Multi-protocol support
- Data rate 39.6 Gbps to 45.2 Gbps
- Reach up to 40km
- Wavelengths 1271/1291/1311/1331nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 15 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-ER4
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
CDR	none
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 1100 mA
Power consumption	< 3 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.3 V ... 4 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 95 %

Transmitter Specifications	
Laser Type	Uncooled DFB
Operating channels	1271.00nm (1264.5 to 1277.5nm)
	1291.00nm (1284.5 to 1297.5nm)
	1311.00nm (1304.5 to 1317.5nm)
	1331.00nm (1324.5 to 1337.5nm)

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Transmitter Specifications	
Grid	None
Average launch power per lane	2 dBm ... 7 dBm
Total optical output power	< 13 dBm
Dispersion Penalty	< 2.6 dB
Extinction Ratio	> 4 dB
Side Mode Suppression	> 30 dB
Supported Data rate	39.8 Gbps ... 45.2 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating channels	1271.00nm (1264.5 to 1277.5nm)
	1291.00nm (1284.5 to 1297.5nm)
	1311.00nm (1304.5 to 1317.5nm)
	1331.00nm (1324.5 to 1337.5nm)
Receiver Overload	> 2.3 dBm
Receiver Sensitivity	< -13.7 dBm
Bit Error Rate at Receiver	1E-12
Optical Rx LOS hysteresis	0.5 dB ... 6 dB
Maximum Optical Input Power per Lane (Overload)	3.3 dBm
Receiver LOS De-Assert	< -22 dBm
Receiver LOS Assert	> -35 dBm
Supported Data rate	39.8 Gbps ... 45.2 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQS-804A18xxxx-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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