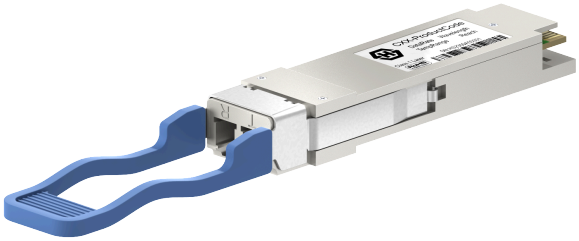
DATA SHEET

Transceivers
40G QSFP+ LR4
CQS-800A08

Properties

- Multi-protocol support
- Data rate 39.6 Gbps to 45.2 Gbps
- Reach up to 10km
- Wavelengths 1271/1291/1311/1331nm
- LC/PC duplex 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-LR4
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	< 900 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)

Transceivers
40G QSFP+ LR4
CQS-800A08

Transmitter Specifications	
Grid	None
Average launch power per lane	-2.3 dBm ... 2.3 dBm
Total optical output power	< 8.3 dBm
Dispersion Penalty	< 2.3 dB
Extinction Ratio	> 3.5
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 (OMA)	< -11.5 dBm
Bit Error Rate at Receiver	1E-12
Supported Data rate	39.8 Gbps ... 45.2 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQS-800A08xxxx-13	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-13: 1310nm

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P30204 / Date of publication: 24.03.2026 / uncontrolled copy