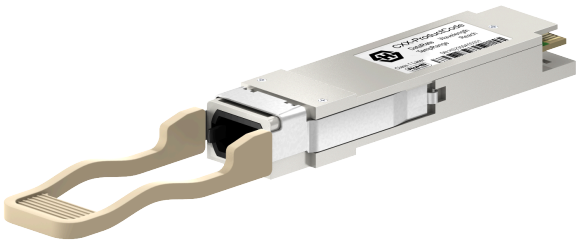
DATA SHEET

Transceivers
40G QSFP+ ESR4
CQM-802A04

Properties

- Multi-protocol support
- Data rate 39.6 Gbps to 45.2 Gbps
- Reach up to 400m
- Wavelength 850nm
- MPO/MTP-8/12 connector
- Multimode fiber
- Temp. range 0 ... 70°C
- Link budget at least 4 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-ESR4
Media type	Multimode
Connector	MTP/MPO-8/12
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	< 200 mA
Power consumption	< 1.5 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1M

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	VCSEL
Operating Wavelength Range	840 nm ... 860nm
Grid	None
Average launch power per lane	-7.6 dBm ... 1 dBm
Extinction Ratio	> 3 dB

Transceivers

40G QSFP+ ESR4

CQM-802A04

Transmitter Specifications	
Side Mode Suppression	> 30 dB
Supported Data rate	39.8 Gbps ... 45.2 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	840 nm ... 860nm
Receiver Overload	> 2.4 dBm
Receiver Sensitivity	< -9.9 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -12 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
CQM-802A04xxxx-85	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-85: 850nm

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