DATA SHEET

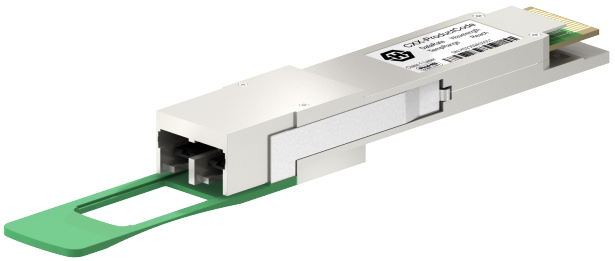
Transceivers

800G QSFP112-DD 2x400G PAM4 FR4

CQS-200A04

Properties

- Protocol 2x 400G Ethernet
- Dual Transceiver
- PAM4 Modulation
- Data rate 2x 425 Gbps
- Reach up to 2km
- Wavelengths 1271/1291/1311/1331nm
- 2x CS duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 4 dB



General data	
Form factor	QSFP112-DD
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	2x 400G Ethernet
Media type	Singlemode
Connector	Dual CS duplex
Modulation Format	PAM4
Built-in FEC	No
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 4394 mA
Power consumption	< 14.5 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 %

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Transmitter Specifications	
Laser Type	EML
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)
Grid	None
Average launch power per lane	-3.2 dBm ... 4.4 dBm
Outer Optical Modulation Amplitude (OMA)	-0.2 dBm ... 3.4 dBm
Total optical output power	< 13.4 dBm
Extinction Ratio	> 3.5 dB
Side Mode Suppression	> 30 dB
Supported Data rate	850 Gbps
Transmitter and dispersion eye closure for PAM4 (TDECQ)	< 3.4 dB

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	> 4.4 dBm
Receiver Sensitivity (OMA)	< -4.6 dBm
Bit Error Rate at Receiver	2.4E-4
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	850 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQS-200A04xxxx-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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