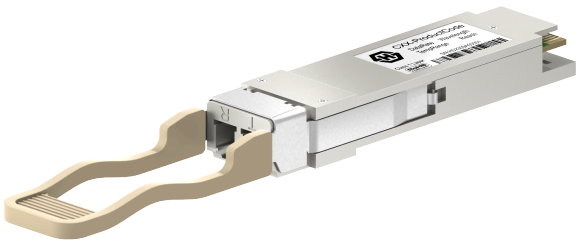
DATA SHEET

Transceivers
100G QSFP28 PAM4 SR1.2
CQM-915A04

Properties

- Multi-protocol support
- Built-in FEC
- PAM4 Modulation
- Data rate 103.125 / 41.25 Gbps
- Reach up to 100m
- Wavelengths 850/900nm
- LC/PC duplex connector
- Multimode fiber
- Temp. range 0 ... 70°C
- Link budget at least 4 dB



General data	
Form factor	QSFP28
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	40/100G Ethernet
Media type	Multimode
Connector	LC/PC duplex
Modulation Format	PAM4
Built-in FEC	KP4-FEC
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Power consumption	< 3.5 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1M

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	VCSEL
Operating channels	850nm (832...868nm)
	900nm (882...918nm)
Grid	None

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Transceivers

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Transmitter Specifications	
Extinction Ratio	> 3 dB
Side Mode Suppression	> 30 dB
Supported Data rate	41.25/103.125 Gbps
Transmitter and dispersion eye closure for PAM4 (TDECQ)	< 4.5 dB

Receiver Specifications	
Receiver Type	PIN
Operating channels	900nm (882...918nm)
	850nm (832...868nm)
Receiver Overload	> 4 dBm
Bit Error Rate at Receiver	1E-12 (post FEC)
Maximum Optical Input Power per Lane (Overload)	5 dBm
Receiver LOS De-Assert	< -12 dBm
Receiver LOS Assert	> -30 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	41.25/103.125 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQM-915A04xxxx-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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