DATA SHEET

Transceivers
100G QSFP28 PIR4
CQS-906A04

Properties

- Protocol 100G Ethernet
- Data rate 103.125 Gbps
- Reach up to 2km
- Wavelength 1310nm
- MPO/MTP-8/12 (APC) connector
- Singlemode 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	100G Ethernet, Infiniband
Data rate standards	100GBASE-PIR4
Media type	Singlemode
Connector	MTP/MPO-8/12 (APC)
Modulation Format	NRZ
Built-in FEC	No
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 1060 mA
Power consumption	< 3.5 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	DML
Operating Wavelength Range	1260 nm ... 1355nm
Grid	None
Average launch power per lane	-6 dBm ... 2 dBm
Total optical output power	< 9.5 dBm

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Transmitter Specifications	
Extinction Ratio	> 3.5 dB
Side Mode Suppression	> -30 dB
Supported Data rate	103.125 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1355nm
Receiver Overload	> 4.5 dBm
Receiver Sensitivity	< -10.1 dBm
Bit Error Rate at Receiver	5E-5
Maximum Optical Input Power per Lane (Overload)	4.5 dBm
Receiver LOS De-Assert	< -12 dBm
Receiver LOS Assert	> -18 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	103.125 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQS-906A04xxxx-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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