DATA SHEET

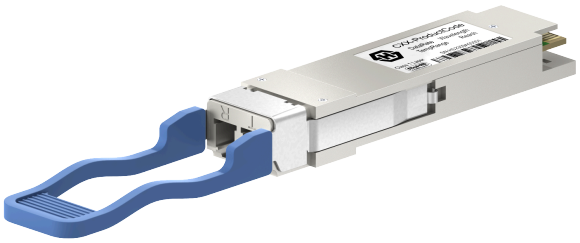
Transceivers

100G QSFP28 Single Lambda PAM4 LR1

CQS-936A06

Properties

- Protocol 100G Ethernet
- Single Lambda, Inb. FEC
- PAM4 Modulation
- Data rate 103.125 Gbps
- Reach up to 10km
- Wavelength 1310nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 6 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 (no host FEC)
Data rate standards	100GBASE-LR
Media type	Singlemode
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
Supply Current	< 1154 mA
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 % ... 95 %

Transmitter Specifications	
Laser Type	EML
Operating Wavelength Range	1304.5 nm ... 1317.5nm
Grid	None
Average launch power per lane	-1.4 dBm ... 4.5 dBm

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Transmitter Specifications	
Extinction Ratio	> 3.4 dB
Side Mode Suppression	> -30 dB
Supported Data rate	103.125 Gbps ... 106.25 Gbps
Transmitter and dispersion eye closure for PAM4 (TDECQ)	< 3.4 dB

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1330nm
Receiver Overload	> 4.5 dBm
Receiver Sensitivity	< -7.7 dBm
Bit Error Rate at Receiver	1E-12 (post FEC)
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	103.125 Gbps
Average receive power per lane	-7.7 dBm ... 4.5 dBm

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CQS-936A06xxxx-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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