DATA SHEET

Transceivers
10G XFP CWDM ZR
CXS-712A23

Properties

- Multi-protocol support
- Data rate 9.95...11.3 Gbps
- Reach up to 80km
- Any ITU CWDM channel between 1471nm and 1611nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 23 dB (w/o dispersion penalty)



General data	
Form factor	XFP
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	10G Ethernet LAN/WAN, 10G FC, STM-64, OTN-2
Data rate standards	10GBASE-ZR/ZW
Media type	Singlemode
Connector	LC/PC duplex
Modulation Format	NRZ
Built-in FEC	No
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	4.75 V ... 5.25 V
Additional supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 350 mA
Additional supply current	< 450 mA
Power consumption	< 3.5 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.5 V ... 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
Grid	CWDM 20nm
Available Wavelength in nm	Any ITU CWDM channel between 1471nm and 1611nm
Average launch power per lane	0 dBm ... 5 dBm
Dispersion Penalty	< 3 dB
Extinction Ratio	> 9 dB
Side Mode Suppression	> 30 dB
Supported Data rate	9.95 Gbps ... 11.3 Gbps

Receiver Specifications	
Receiver Type	APD
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> -6 dBm
Receiver Sensitivity	< -23 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -27 dBm
Receiver LOS Assert	> -37 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	9.95 Gbps ... 11.3 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CXS-712A23xxxx-ww	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-ww: CWDM channel chosen from table at the end

Channel Allocation			
Code	Wavelength (nm)	Code	Wavelength (nm)
-47	1471	-55	1551
-49	1491	-57	1571
-51	1511	-59	1591
-53	1531	-61	1611

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