DATA SHEET

Transceivers
8G XFP DWDM ER
CXS-800A15

Properties

- Multi-protocol support
- Data Rate 2.125...8.5 Gbps
- Reach up to 40km
- Any ITU DWDM channel between C17 and C61
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 15 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	2/4/8G Fiber Channel
Data rate standards	FC-PI-4 800-SM-LC-L
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 %

Transmitter Specifications	
Laser Type	EML
Grid	DWDM 100GHz C-band
Available Wavelength in nm	Any ITU DWDM channel between C17 and C61
Average launch power per lane	0 dBm ... 5 dBm

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Transmitter Specifications	
Dispersion Penalty	< 2 dB
Dispersion range	-400 ps/nm ... 800ps/nm
Extinction Ratio	> 8.2 dB
Side Mode Suppression	> 30 dB
Supported Data rate	2.125 Gbps ... 8.5 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1620nm
Receiver Overload	> 0.5 dBm
Receiver Sensitivity	< -15 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -18 dBm
Receiver LOS Assert	> -32 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	2.125 Gbps ... 8.5 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CXS-800A15xxxx-ww	"xxxx" is an alphanumerical string, describing the compatibility. "0000" means no special coding to ensure compatibility with a special switch type.	-ww: DWDM channel chosen from the table at the end

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