DATA SHEET

Transceivers
10G XFP Bidi ER
CXB-701A15

Properties

- Multi-protocol support
- Data rate 9.95...11.3 Gbps
- Reach up to 40km
- Wavelength 1270/1330 or 1330/1270nm
- LC/PC simplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 15 dB



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-ER/EW
Media type	Singlemode
Connector	LC/PC simplex
Modulation Format	NRZ
Built-in FEC	No
CDR	Double
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Power consumption	< 2 W
Digital Diagnostic Management (DDM)	Yes
Laser hazard level	1

Absolute Maximum Ratings	
Max. supply voltage range	-0.5 V ... 4 V
Max. Storage Temperature Range	-40 °C ... 85 °C
Max. relative humidity range	5 % ... 85 %

Transmitter Specifications	
Laser Type	Uncooled DFB
Operating channels	1270nm (1260.00 to 1280.00nm) 1330nm (1320.00 to 1340.00nm)
Grid	None
Available Wavelength in nm	Tx 1270nm/Rx 1330nm Tx 1330nm/Rx 1270nm
Average launch power per lane	0 dBm ... 5 dBm

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Transmitter Specifications	
Extinction Ratio	> 3.5 dB
Side Mode Suppression	> 30 dB
Supported Data rate	9.95 Gbps ... 11.3 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating channels	1270nm (1260.00 to 1280.00nm)
	1330nm (1320.00 to 1340.00nm)
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	9.95 Gbps ... 11.3 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CXB-701A15xxxx-ww	"xxxx" is an alphanumerical string, describing the compatibility. "0000" means no special coding to ensure compatibility with a special switch type.	-23: 1270nm Laser / 1330nm Receiver
		-32: 1330nm Laser / 1270nm Receiver

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