DATA SHEET

Transceivers
10G SFP+ Bidi ZR
CSB-853A21

Properties

- Multi-protocol support
- Data rate up to 11.3 Gbps
- Reach up to 60km
- Wavelength 1270/1330 or 1330/1270nm
- LC/PC simplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 20 dB



General data	
Form factor	SFP+
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	1/10G Ethernet, 1/2/4/8/10G FC, STM-64/OC-48, CPRI Option 2...8, OBSAI
Data rate standards	CPRI Option 2 to 8
Media type	Singlemode
Connector	LC/PC simplex
Modulation Format	NRZ
Built-in FEC	No
CDR	none
Operation temperature	0 °C ... 70 °C
Supply voltage typical	3.13 V ... 3.47 V
Supply Current	< 450 mA
Power consumption	< 1.5 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	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

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Transmitter Specifications	
	Tx 1330nm/Rx 1270nm
Average launch power per lane	0 dBm ... 5 dBm
Extinction Ratio	> 3.5 dB
Side Mode Suppression	> 30 dB
Supported Data rate	1.0625 Gbps ... 11.3 Gbps

Receiver Specifications	
Receiver Type	APD
Operating channels	1270nm (1260.00 to 1280.00nm)
	1330nm (1320.00 to 1340.00nm)
Receiver Overload	> 0.5 dBm
Receiver Sensitivity	< -20 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -21 dBm
Receiver LOS Assert	> -35 dBm
Receiver LOS Hysteresis	> 0.5 dB
Supported Data rate	1.0625 Gbps ... 11.3 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSB-853A21xxxx-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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