DATA SHEET

Transceivers
25G SFP28 Bidi LR
CSB-401A08

Properties

- Multi-protocol support
- Data rate 24.33...25.78 Gbps
- Reach up to 10km
- Wavelength 1270/1330 or 1330/1270nm
- LC/PC simplex connector
- Singlemode fiber
- Temp. range -40 ... 85°C
- Link budget at least 8 dB



General data	
Form factor	SFP28
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	25G Ethernet, eCPRI, CPRI 10
Data rate standards	25GBASE-LR 25G eCPRI CPRI Option 10
Media type	Singlemode
Connector	LC/PC simplex
Modulation Format	NRZ
Built-in FEC	No
CDR	Double
Operation temperature	-40 °C ... 85 °C
Supply voltage typical	3.14 V ... 3.47 V
Supply Current	< 300 mA
Power consumption	< 1.2 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

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Transmitter Specifications	
Available Wavelength in nm	Tx 1270nm/Rx 1330nm
	Tx 1330nm/Rx 1270nm
Average launch power per lane	-4 dBm ... 4 dBm
Extinction Ratio	> 3.5 dB
Side Mode Suppression	> 30 dB
Supported Data rate	24.33 Gbps ... 25.78 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	< -12 dBm
Bit Error Rate at Receiver	5E-5
Receiver LOS De-Assert	< -13 dBm
Receiver LOS Assert	> -30 dBm
Receiver LOS Hysteresis	> 0.5
Supported Data rate	24.33 Gbps ... 25.78 Gbps

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSB-401A08xxxx-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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