DATA SHEET

Transceivers
2G CSFP 2x1G Bidi LX
CSD-301A11

Properties

- Multi-protocol support
- Dual Transceiver, 2xBidi
- Data rate 2x125 Mbps and 2x1.0625...2x1.25 Gbps
- Reach up to 20km
- Wavelength Tx 1490/Rx 1310nm
- LC/PC duplex connector
- Singlemode fiber
- Temp. range 0 ... 70°C
- Link budget at least 11 dB
- Power consumption < 1.5 W



General data	
Form factor	CSFP
Product image	Actual product may differ from the images shown. Colours, design, and details can vary.
Protocol	2x1G Ethernet, 2x1G Fiber Channel, 2xCPRI 2
Data rate standards	1000BASE-LX
	CPRI Option 2
Media type	Singlemode
Connector	LC/PC duplex
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 %

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Transmitter Specifications	
Laser Type	Uncooled DFB
Operating Wavelength Range	1480 nm ... 1500nm
Grid	None
Average launch power per lane	-9 dBm ... -3 dBm
Extinction Ratio	< 9 dB
Side Mode Suppression	> 30 dB
Supported Data rate	125 Mbps / 1.0625 Gbps ... 1.25 Gbps

Receiver Specifications	
Receiver Type	PIN
Operating Wavelength Range	1260 nm ... 1360nm
Receiver Overload	> -3 dBm
Receiver Sensitivity	< -19.5 dBm
Bit Error Rate at Receiver	1E-12
Receiver LOS De-Assert	< -22 dBm
Receiver LOS Assert	> -35 dBm
Receiver LOS Hysteresis	> 0.5
Supported Data rate	125 Mbps / 1.0625 Gbps ... 1.25 Gbps
Maximum Receiver Power (Damage Threshold)	> 5 dBm

Ordering Information Table		
Order Code	Compatibility code explanation	Wavelength code explanation
CSS-301A11xxxx-43	“xxxx” is an alphanumerical string, describing the compatibility. “0000” means no special coding to ensure compatibility with a special switch type.	-43: 1490nm Laser / 1310nm Receiver

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DOCUMENT PIM-P30236 / Date of publication: 04.11.2026 / uncontrolled copy