DATASHEET

IO-SFP-CF-XS-LR

IO, 10G Optical Long Range SFP+



Description

The IO-SFP-CF-XS-LR is a single mode SFP+ transceiver designed for 10 Gigabit Ethernet and 10G Fiber Channel applications. It uses a 1310nm DFB laser transmitter and a PIN photodiode receiver and supports transmission distances up to 10km on single mode fiber.

The module supports data rates between 1.0Gbps and 10.7Gbps and is compliant with the SFP+ Multi-Source Agreement and the SFF-8472 Digital Diagnostics Monitoring standard. Real time diagnostics provide monitoring of temperature, supply voltage, transmit power, receive power, and bias current.

The transceiver is available in Commercial (0°C to +70°C) operating temperature variants which makes it suitable for access networks, data centers, and metro applications.

Key Specifications

- 10G SFP+ transceiver with duplex LC connector
- 1310nm DFB laser and PIN photodiode receiver
- Supports 1.0Gbps to 10.7Gbps data rates
- Up to 10km transmission distance over single mode fiber
- Less than 1.2 W power consumption
- Temp operating conditions: Commercial (0°C to +70°C)

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Technical Data

Parameter	Value	Parameter	Value
Form Factor	SFP+	**Transmitter Data**	
Transmission Media	SM (LC)	Tx Power	-6.5 to -5dBm[3)]
Typical Reach	10km	Tx Wavelength	1270-1350nm
Nominal Wavelength	1310nm	Extinction Ratio	≥ 3.5dB
Data Rate Support	1.0Gbps to 10.7Gbps	**Receiver Data**	
Protocol Support	10GbE	Rx Sensitivity	-14.4dBm[1) 2)]
Power Consumption	<1.2W	Rx Overload, Max	0.5dBm[2)]
Operating Temperature	0°C to 70°C	Rx Wavelength	1260-1600nm
Storage Temperature	-40°C to 85°C	LOS Assert	-30dBm
DDM	Yes	LOS De-assert	-15.5dBm
		LOS Hysteresis	0.5dB

1. Average Power
2. @ 10.3Gbps. Measured with PRBS 2^{31}-1@ BER 1E-12

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Safety/Regulatory Compliance

- Class 1 laser safe
- RoHS Compliance

Absolute Maximum Rating

Parameter	Value
Supply Voltage	-0.5V to 4.5V
Storage Temperature	-40°C to 85°C
Relative Humidity	85%
Max Rx Optical Power	0.5dBm

Ordering Information

Model No.	Description
IO-SFP-CF-XS-LR	IO, 10G Optical Long Range SFP+ Commercial Grade

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