100G CFP2 1310nm SMF

Variants

10Km LC Duplex 40km LC Duplex

Details

CFP2 100G LR4 / ER4 Optical Transceiver

The CFP2 100G optical transceiver is a high-performance, hot-pluggable module designed for long-distance data transmission over single-mode fiber. Supporting 4 × 25Gbps LAN-WDM lanes, it is ideal for data centers, telecom, and metro networks requiring reliable 100G connectivity.

Key Features

Hot-pluggable CFP2 form factor
4 × 25 Gbps LAN-WDM optical lanes (1295.56 / 1300.05 / 1304.58 / 1309.14 nm)
Duplex LC optical interface for SMF (9/125 µm)
CAUI-4 electrical interface with MDIO management
Digital Optical Monitoring (DOM) supported
Power consumption ? 6W (LR4) / ? 8W (ER4)
Hot-swappable with MDIO 2-wire management
Built-in APD/TIA receiver (ER4 model)
RoHS compliant and Class 1 laser safe

Optical Specifications

Parameter	CFP2-100G-LR4	CFP2-100G-ER4
Transmission Distance	Up to 10 km	Up to 40 km
Center Wavelength	1295.56 / 1300.05 / 1304.58 / 1309.14 nm	
Fiber Type	Single Mode Fiber (OS2)	
Connector Type	Duplex LC	
Tx Output Power	–2.9 to +4.5 dBm	–2 to +4 dBm
Rx Sensitivity	? –10.6 dBm	? –19 dBm
Extinction Ratio	? 3.5 dB	? 4 dB
Transmitter Type	DFB Laser	EML Laser
Receiver Type	PIN	APD

Electrical Interface

4 × 25Gbps CML lanes (CAUI-4, IEEE 802.3bm)
Power Supply: 3.3V
AC coupled inputs and outputs
MDIO management interface (CFP MSA)
CDR on transmit and receive paths

Environmental & Mechanical

Operating Temperature	0°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	5% – 85% (Non-condensing)

Dimensions	107.5 × 41.5 × 12.4 mm
Weight	? 120 g
MTBF	> 1,000,000 hours

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