

10x10G 10KM CFP TRANSCEIVER

CFP1C0XL2C000E1G

Product Description

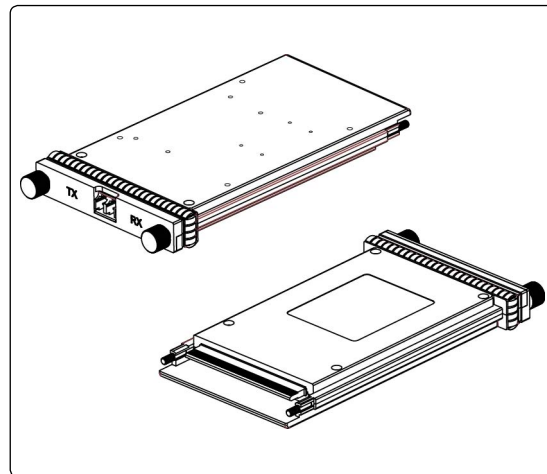
The CFP1C0XL2C000E1G transceiver is a hot pluggable fiber optic transceiver in the CFP form factor. Integrating 10 channels of 10G transmitting and receiving functions makes it ideally suited for 100G long reach applications where cost effective high bandwidth is needed. The diagnostic and control functions are integrated into the design via a set of non-data hardware signal pins and Management Data Input/Output (MDIO) interface per the CFP Multi-Source Agreement (MSA) Management Interface Specification draft 1.4.

The transceiver supports 100G data transmission over ten wavelength-division-multiplexed lanes. The ten lanes are at 8nm spacing grids between 1523nm and 1595nm respectively. Each lane transmits and receives data streams at typical data rate of 10.3125Gbps. It provides an excellent solution for 100G data transmission over up to 10km single mode fiber. It enables high bandwidth long reach designs, eliminates fiber bundles, and reduces fiber handling. The product is designed and tested in accordance with industry safety standards. The transceiver is Class 1M Laser product per U.S. FDA/CDRH and international IEC-60825 standards.

The CFP1C0XL2C000E1G transceiver connects to standard 148-pin CFP connectors for hot plug capability. This allows the system designer to make configuration changes or maintenance by simply plugging in different transceivers without removing the power supply from the host system. The transmitter and receiver DATA interfaces are internally AC-coupled. LV-CMOS Transmitter Disable control input and Loss of Signal (LOS) output interfaces are also provided.

The transceiver can be conveniently assembled into and released from the host system through the raiiling system specified in the CFP MSA.

The transceiver operates from a single +3.3V power supply over an operating case temperature range of -5°C to +70°C. The housing is made of metal for EMI immunity.



Features

- Integrated 10x10G WDM channels
- Transmission distance up to 10km (SM fiber)
- Support CFP MSA and CAUI electrical interface
- Compliant to 10x10 MSA
- Control functions through the CFP management interface
- Digital diagnostic monitoring of per lane laser bias, transmitter and receiver optical power
- CFP Power Class 3 (<24W)
- RoHS compliant

Ordering Information

Model Name	Operating Temperature		Norminal Wavelength (nm)	Distance
CFP1C0XL2C000E1G	- 5°C to +70°C	Commercial	1523, 1531, 1539, 1547, 1555, 1563, 1571, 1579, 1587, 1595	10km



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