

100G-SR10 CFP2 TRANSCEIVER

CP21C0XSRC000xG



Product Description

The CP21C0XSRC000xG is a hot pluggable fiber optic transceiver in the CFP2 form factor with digital diagnostics monitoring functionality (DDM) and control functions. Supporting 100GBase-SR10 Ethernet standard and OTU4 data rates makes it ideally suited for 100G applications where cost effective high port density is needed. It offers doubled port density of 100G-SR10 CFP transceivers. The control and status reporting functions are integrated into the design via a set of non-data hardware signal pins and Management Data Input/Output (MDIO) interface per the CFP2 Multi-Source Agreement.

The transceiver supports an aggregate bandwidth of 100G over 100 meters of optical fiber. Each lane transmits and receives data streams at data rates up to 11.1809Gbps. The CFP transceiver has a single MPO port which connects to an industry standard 2x12 multi-mode fiber cable. It provides an excellent solution for 100GbE/OTU4 data transmission at 850nm over up to 100m multimode mode ribbon cables. The low power consumption and excellent EMI performance enable system design with high port density. The product is designed and tested in accordance with industry safety standards. The transceiver is Class I Laser product per U.S. FDA/CDRH and IEC 60825-1:2007 & IEC 60825-2:2004+A1+A2 standards.

The CP21C0XSRC000xG transceiver connects to standard 104-pin CFP2 connectors for hot plug capability. This allows system designers 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 latch.

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 10 independent full duplex lanes
- Transmission distance up to 100m (OM4 fiber)
- CFP2 form factor for doubled port density than CFP
- Compliant to 100Gbase-SR10 specifications
- Support data transmission up to 111.809Gb/s
- Support CAUI proposals
- Status reporting and control functions through the MDIO interface
- RoHS 6/6 compliant
- Laser Class 1 IEC/CDRH compliant

Ordering Information

Model Name	Operating Temperature		Nominal Wavelength	Supported Data Rate (Gb/s)	Distance	Latch Color
CP21C0XSRC000E1G	-5°C to +70°C	Commercial	850	103.125	100m	Beige
CP21C0XSRC000E2G	-5°C to +70°C	Commercial	850	103.125 and 111.809	100m	Beige

