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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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10GB ETHERNET SFP+ ULTRA LOW POWER SR OPTICAL TRANSCEIVER

OVERVIEW

FCI's TRX10GVP2010C2 10Gb/s Ethernet 850nm Multi Mode SFP+ SR Optical Transceiver is designed for datacenter networking links up to 400m and uses half the power of competitive options.

The TRX10GVP2010C2 is compliant with SFP+ MSA specifications (SFF-8431, SFF-8432, SFF-8472), 10 Gigabit Ethernet specifications (10GBASE-SR/SW), and also 10G Fibre Channel (1200-MX-SN-I). It is RoHS 6/6 compliant per Directive 2002/95/EC and laser class 1 safety compliant per IEC/CDRH.

The TRX10GVP2010C2 is the most power efficient way to transmit optical 10Gb Ethernet traffic in the datacenter.



FEATURES

- Ultra Low Power Consumption at 0.25W Typical
- Supports Commercial Temperature Range
- Ethernet 10GBASE-SR/SW Compliance
- Fibre Channel 1200-MX-SN-I Compliance
- SFF-8431 SFP+ Electrical MSA Compliance
- SFF-8436 SFP+ Mechanical MSA Compliance
- SFF-8472 SFP+ Diagnostic Interface MSA Compliance
- Data rate transparent from 9.95Gb/s to 11.3Gb/s
- Laser Class 1 IEC / CDRH compliant
- ROHS 6/6 Compliance

BENEFITS

- Lowers energy cost
- Simplifies thermal management
- Operates over temperature range of 0°C to +70°C (case)
- Ethernet Transmission distance up to 400m (multi mode fibre)
- Interoperable with other 10GBASE-SR/SW compatible transceivers
- Fibre Channel Transmission distance up to 400m (multi mode fibre)
- Electrically interoperable with all SFP+ ports
- Mechanically interoperable with all SFP+ ports
- Supports duplex LC optical connectors
- Allows for connection discovery and signal condition monitoring
- Supports Non-standard protocols in this range of data rates
- Eye-safe laser source
- Does not contain hazardous materials

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TECHNICAL INFORMATION

MATERIALS

- Mates with:
 - Board Connector: FCI/PN 10122424 series
- Cage:
 - 1x4 cage configuration– FCI P/N10122382, 10126907 & 10126908 series
 - 1x2 cage configuration– FCI P/N 10127103 & 10127105 series
 - 1x4 cage configuration– FCI P/N 10122388, 10126909 & 10126910 series
- LC Interface: FCI/P/N 10120511–series

ELECTRICAL PERFORMANCES

- Power Supply Voltage: 3.3V
- Data Rate per Lane: 10Gbps
- Power Consumption: 0.25W (typ.)
- Transmitter Type: 850nm VCSEL laser
- Receiver Type: PIN–diode

ENVIRONMENTAL

- RoHS 6/6 compliant
- Laser Class 1 / CDRH
- Operating Temperature Range: 0°C to 70°C

SPECIFICATIONS

- Module meets MSA –Small Form Factors
 - SFF–8431 / Electrical
 - SFF–8432 / Mechanical
 - SFF–8472 / Diagnostic
- Product Specification: GS–12–1278

APPROVALS AND CERTIFICATIONS

- UL: E251142–191
- TUV: 213137–019
- FDA: 0312716

PACKAGING

- Individual Blister Package

SUPPORTED STANDARDS

- 10GBASE–SR per IEEE 802.3
- 10GBASE–SW per IEEE 802.3

TARGET MARKETS/APPLICATIONS

- Communications
 - Switches
- Data
 - Data Center
 - High Performance Computing
- Industrial

PART NUMBERS



Application	Standard	Part Number
10G Ethernet LAN	IEEE 802.3ae 10GBASE–SR	TRX10GVP2010C2
10G Ethernet WAN	IEEE 802.3ae 10GBASE–SW	TRX10GVP2010C2
10G Fibre Channel	Fibre Channel 1200–MX–SN–I	TRX10GVP2010C2

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