

SFP-10GBASE-T-J2-OPC

Juniper Networks® Compatible TAA 10GBase-TX SFP+ Transceiver (Copper, 30m, RJ-45, 0 to 70C)

Features

- SFF-8432 Compliance
- RJ-45 Connector
- Copper Media Type
- Commercial Temperature 0 to 70 Celsius
- Hot Pluggable
- Metal with Lower EMI
- Excellent ESD Protection
- RoHS Compliant and Lead Free



Applications:

- 10GBase Ethernet

Product Description

This Juniper Networks® compatible SFP+ transceiver provides 10GBase-TX throughput up to 30m over a copper connection via a RJ-45 connector. It can operate at temperatures between 0 and 70C. This TX module supports 100/1000/10000Base auto-negotiation and can be configured to fit your needs. Our transceiver is built to meet or exceed OEM specifications and is guaranteed to be 100% compatible with Juniper Networks®. It has been programmed, uniquely serialized, and tested for data-traffic and application to ensure that it will initialize and perform identically. All of our transceivers comply with Multi-Source Agreement (MSA) standards to provide seamless network integration. This transceiver is Trade Agreements Act (TAA) compliant. We stand behind the quality of our products and proudly offer a limited lifetime warranty.

Absolute Maximum Ratings

| Parameter | Symbol | Min. | Max. | Unit |
|----------------------------|------------------|-------|------|------|
| Maximum Supply Voltage | V _{CC} | 3.135 | 3.6 | VDC |
| Storage Temperature | T _S | -40 | 85 | °C |
| Operating Case Temperature | T _C | 0 | 70 | °C |
| Operating Humidity | RH | 5 | 95 | % |
| Maximum Bitrate | B _{max} | | 11.4 | Gbps |

Electrical Characteristics (TOP=25°C, V_{CC}=3.3Volts)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Notes |
|----------------------------------|-----------------|-------|------|----------------------|------|-------|
| Power Supply Voltage | V _{CC} | 3.135 | 3.30 | 3.465 | V | |
| Low Speed Input Voltage | | -0.5 | | V _{CC} +0.3 | V | |
| Two-Wire Interface Input Voltage | | -0.3 | | V _{CC} +0.5 | V | |
| Power (30m @ 25C ambient) | | | 2.3 | 2.5 | W | |

Pin Descriptions

| Pin | Symbol | Name/Descriptions | Ref. |
|-----|------------|--|------|
| 1 | VeeT | Transmitter Ground | 1 |
| 2 | Tx_Fault | Transmitter Fault LVTTTL-O | |
| 3 | Tx_Disable | Transmitter Disable LVTTTL-I | |
| 4 | SDA | 2-wire Serial Interface Data Line LVTTTL-I/O | |
| 5 | SCL | 2-wire Serial Interface Clock LVTTTL-I/O | |
| 6 | Mod_ABS | Module Absent, connect to VeeT or VeeR in the module | |
| 7 | RS0 | Rate Select 0 LVTTTL-I | |
| 8 | Rx_LOS | Receiver Loss of Signal Indication LVTTTL-O | |
| 9 | RS1 | Rate Select 1 LVTTTL-I | |
| 10 | VeeR | Receiver Ground | 1 |
| 11 | VeeR | Receiver Ground | 1 |
| 12 | RD- | Receiver Inverted Data Output CML-O | |
| 13 | RD+ | Receiver Non-Inverted Data Output CML-O | |
| 14 | VeeR | Receiver Ground | 1 |
| 15 | VccR | Receiver 3.3V Supply | |
| 16 | VccT | Transmitter 3.3V Supply | |
| 17 | VeeT | Transmitter Ground | 1 |
| 18 | TD+ | Receiver Inverted Data Output CML-I | |
| 19 | TD- | Transmitter Inverted Data Input CML-I | |
| 20 | VeeT | Module Transmitter Ground | 1 |

Notes:

1. The module signal grounds should be isolated from the module case.

Mechanical Specifications

