

ZTE 033030100344 Datasheet



ZTE 10G 1310nm SM 10km I-temp SFP+ Module RTXM228-402 MTRS-1E31-01 SPP-10E-LR-IDFF-ZT

033030100344

The ZTE 033030100344 is a high performance, cost effective modules, which is supporting Multi Rate 4.9152Gbps to 10.3125Gbps, and transmission distance up to 10km on SM fiber. The transceiver consists of two sections: the transmitter section incorporates a laser driver and a 1310nm DFB laser. The receiver section consists of a PIN photodiode integrated with a transimpedance preamplifier (TIA) and a Limitting Amplifier. The module is hot pluggable into the 20-pin connector. The high-speed electrical interface is base on low voltage logic, with nominal 100 Ohms differential impedance and AC coupled in the module.

The optical output can be disabled by LVTTL logic high-level input of TX_DIS. Transmit Fault (Tx_Fault) is provided to indicate that the module transmitter has detected a fault condition related to laser operation or safety. Loss of signal (RX_LOS) output is provided to indicate the loss of an input optical signal of receiver.

A serial EEPROM in the transceiver allows the user to access transceiver monitoring and configuration data via the 2-wire SFP Management Interface. This interface uses a single address, A0h, with a memory map divided into a lower and upper area. Basic digital diagnostic (DD) data is held in the lower area while specific data is held in a series of tables in the high memory area.

Features

- Up to 10km transmission distance
- Support Multi Rate 4.9152 Gbps to 10.3125 Gbps
- 1310nm DFB Laser Transmitter and PIN Receiver
- SFI electrical interface
- 2-wire interface for integrated Digital Diagnostic monitoring
- SFP+ MSA package with duplex LC connector
- Hot pluggable
- Very low EMI and excellent ESD protection
- +3.3V power supply
- Power consumption less than 1.0W
- Operating case temperature: -40~+85°C

Applications

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

Compliance

- Compliant with MSA SFF-8472
- Compliant with IEEE 802.3ae-2002
- Compliant with SFF-8431

Specifications

- Part Number: 033030100344

- MPN: RTXM228-402, MTRS-1E31-01, SPP-10E-LR-IDFF-ZT
- Form Factor: SFP+
- Data Rate (max): 10G
- Connector: Duplex LC
- Wavelength: 1310nm
- Distance: 10km
- Transmitter: DFB Laser
- Receiver: PIN
- Diagnostics: Digital
- Voltage Supply: 3.3V
- Operating Temperature: -40 ~ 85°C

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