

ZTE 033030600033 Datasheet



ZTE 100G 1310nm SM 2km C-temp QSFP28 PSM4 Transceiver Module TR-VC13T-N00

033030600033

This ZTE 033030600033 is a parallel 100Gb/s Quad Small Form-factor Pluggable (QSFP28) optical module. It provides increased port density and total system cost savings. The QSFP28 full duplex optical module offers 4 independent transmit and receive channels, each capable of 25Gb/s operation for an aggregate data rate of 100Gb/s on 2km of single mode fiber.

An optical fiber ribbon cable with an MTP/MPO connector can be plugged into the QSFP28 module receptacle. Proper alignment is ensured by the guide pins inside the receptacle. The cable usually cannot be twisted for proper channel to channel alignment. Electrical connection is achieved through an MSA-compliant 38-pin edge type connector.

The module operates with single +3.3V power supply. LVCMOS/LVTTL global control signals, such as Module Present, Reset, Interrupt and Low Power Mode, are available with the modules. A 2-wire serial interface is available to send and receive more complex control signals, and to receive digital diagnostic information. Individual channels can be addressed and unused channels can be shut down for maximum design flexibility.

The ZTE 033030600033 is designed with form factor, optical/electrical connection and digital diagnostic interface

according to the QSFP28 Multi-Source Agreement (MSA). It has been designed to meet the harshest external operating conditions including temperature, humidity and EMI interference. The module can be managed through the I2C two-wire serial interface.

Features

- QSFP28 MSA compliant
- Compliant to IEEE 802.3bm 100GBASE PSM4
- Four independent full-duplex channels
- Supports 103.1Gb/s aggregate bit rate
- Up to 2km reach for G.652 SMF
- 4x25G electrical interface (OIF CEI-28G LMSR)
- Maximum power consumption 3.5W
- Single +3.3V power supply
- Operating case temperature: 0 to 70oC
- RoHS-6 compliant

Applications

- 100G Ethernet links
- Infiniband QDR and DDR interconnects
- Datacenter and Enterprise networking

Specifications

- Part Number: 033030600033
- MPN: TR-VC13T-N00
- Description: QSFP28 PSM4

- Form Factor: QSFP28
- Data Rate: 100Gbps
- Fiber: SMF
- Interface: Duplex LC
- Transmitter: 1310nm DFB
- Receiver: PIN
- TX: -5.5 ~ 2dBm
- RX: -10.2 ~ 2dBm
- Power Consumption: 3.5W
- Distance: 2km
- DDMI: Yes
- Operating Temperature: 0~+70°C

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