

# ZTE 033030600022 Datasheet



ZTE 100G 850nm MM 100m C-temp QSFP28 SR4 Transceiver Module TR-FC85S-N00

033030600022

This ZTE 033030600022 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 100 meters of OM4 multi-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 by a 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 033030600022 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 offers very high functionality and feature integration, accessible via a two-wire serial interface.

## Features

- QSFP28 MSA compliant
- Compliant to IEEE 802.3bm 100GBASE-SR4
- Four independent full-duplex channels
- Supports 103.1Gb/s aggregate bit rate
- Up to 100m OM4 MMF transmission
- Operating case temperature: 0 to 70oC
- Single 3.3V power supply
- 4x25G electrical interface (OIF CEI-28G 1VSR)
- Maximum power consumption 2.5W
- MTP/MPO optical connector
- RoHS-6 compliant

## Applications

- Rack to Rack
- Data Center
- Infiniband QDR, DDR and SDR
- 100G Ethernet

## Specifications

- Part Number: 033030600022

- MPN: TR-FC85S-N00
- Description: QSFP28 SR4
- Form Factor: QSFP28
- Data Rate: 100Gbps
- Fiber: MMF
- Interface: MTP/MPO
- Transmitter: 850nm VCSEL
- Receiver: PIN
- TX: -8.4 ~ 2.4dBm
- RX: -10.3 ~ 2.4dBm
- Power Consumption: 2.5W
- Distance: 100m
- DDMI: Yes
- Operating Temperature: 0~+70°C

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