HISILICON OPTOELECTRONICS

QSFP28 100GE ER4 40 km (OM9558ES100)

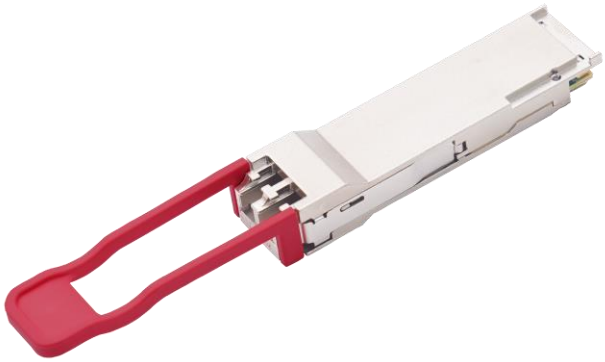
Databrief

Product Features

- QSFP28 MSA compliant
- Hot pluggable 38 pin electrical interface
- 4 LAN-WDM lanes MUX/DEMUX design
- 4 x 25G electrical interface
- Transmitter: cooled LAN-WDM EML TOSA
- Receiver: SOA + PIN ROSA
- Maximum power consumption 5 W
- LC duplex connector
- Supports 103.125 Gbps aggregate bit rate
- Up to 40 km transmission on single mode fiber without FEC
- Operating case temperature: 0°C to 70°C
- Single 3.3 V power supply
- RoHS 2 compliant

Applications

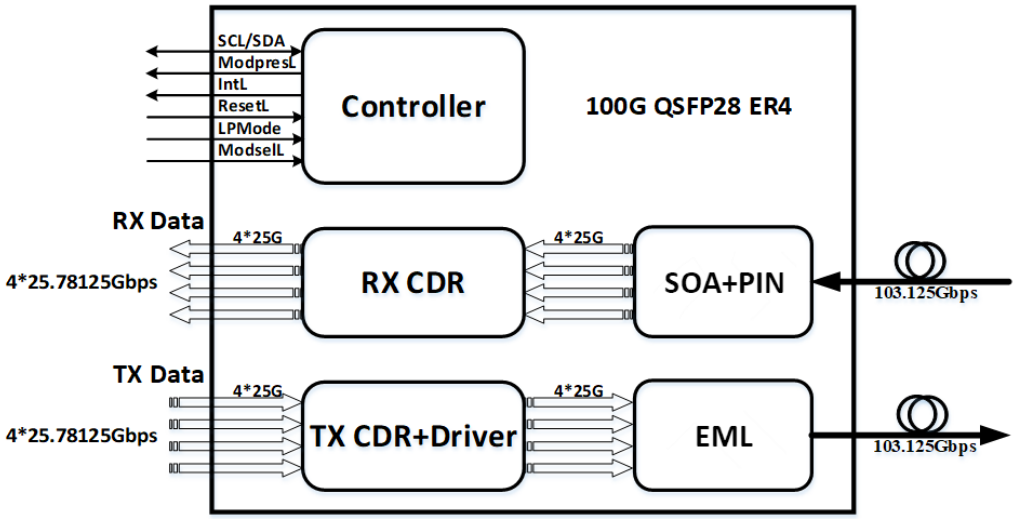
- 100GE Ethernet
- Telecom networking
- Data center interconnect



1. Function Description

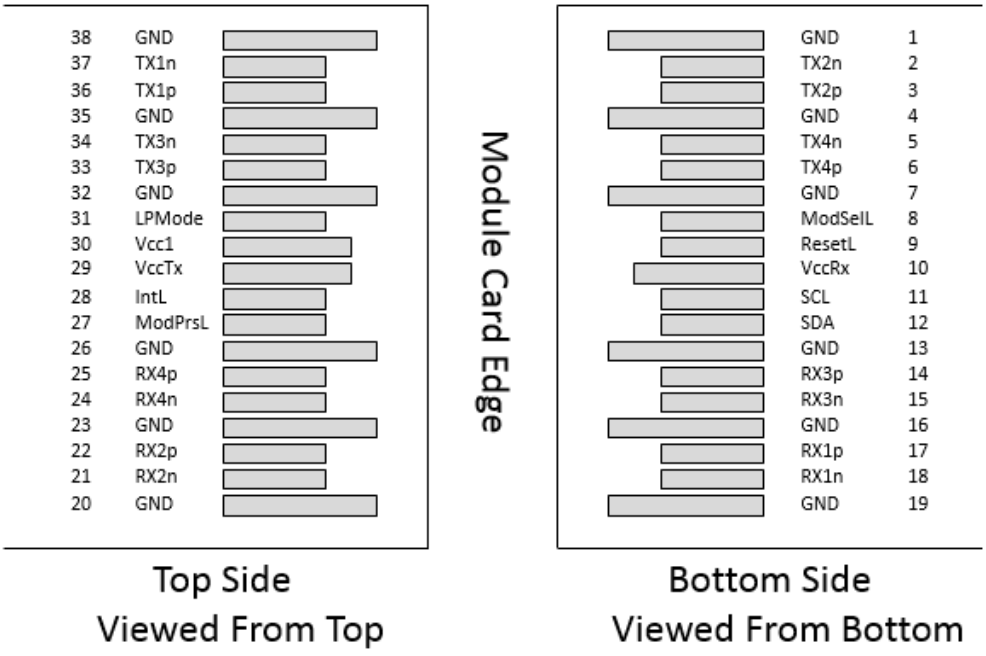
OM9558ES100 module is designed for 40 km optical communication applications. This module contains 4-lane optical transmitter, 4-lane optical receiver and module management block including 2 wire serial interfaces. The optical signals are multiplexed to a single-mode fiber through an industry standard LC connector. A block diagram is shown in Figure 1-1.

Figure 1-1 Transceiver block diagram



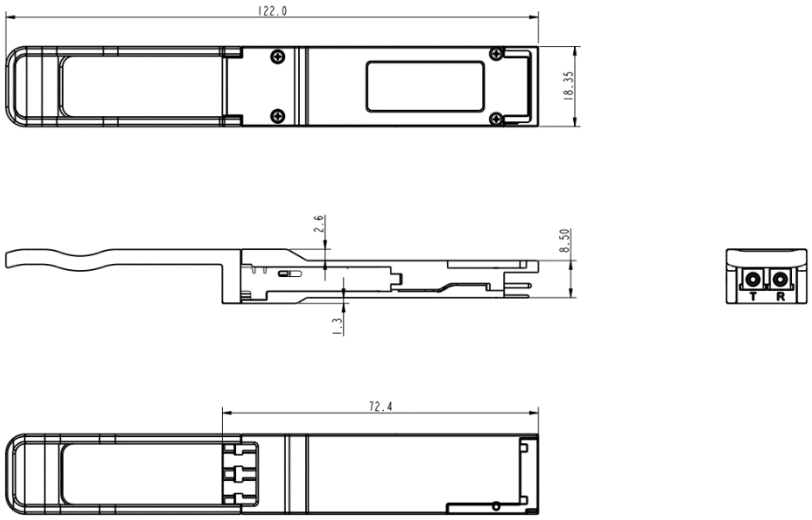
2. Pin Descriptions

Figure 2-1 MSA compliant connector



3. Mechanical Specifications

Figure 3-1 Mechanical dimensions



4. Ordering Information

Part Number	Description
OM9558ES100	QSFP28 100GE ER4 40 km

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