



**HISILICON**  
OPTOELECTRONICS

QSFP28 100GE ZR4 80 km

# Databrief

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## Product Features

- QSFP28 MSA compliant
- Hot-pluggable 38-pin electrical interface
- 4 LAN-WDM lanes MUX/DEMUX design
- 4 x 25G electrical interface
- Maximum power consumption:
  - OM9558ZS100 6.5 W
  - OM9558ZS105 5.5 W
  - OM9558ZS106 6 W
  - OM9558ZS107 4.5 W
- LC duplex connector
- Supports 103.125 Gbps aggregate bit rate
- Up to 80 km transmission on single mode fiber
- Operating case temperature:
  - OM9558ZS100 0°C to 70°C
  - OM9558ZS105 0°C to 70°C
  - OM9558ZS106 -20°C to +75°C
  - OM9558ZS107 0°C to 70°C
- Single 3.3 V power supply
- RoHS 2 compliant

## Applications

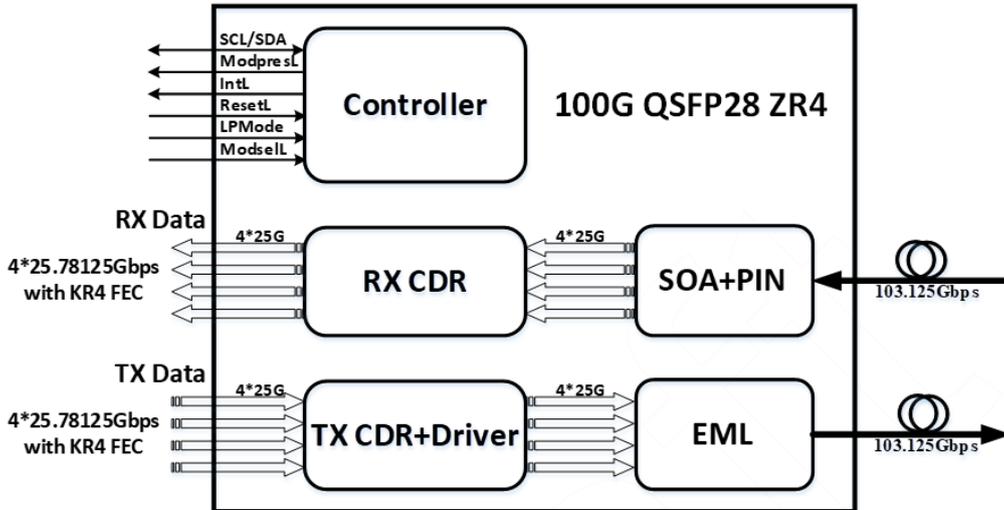
- 100GBASE-ZR4 100G Ethernet
- Telecom networking



# 1. Function Description

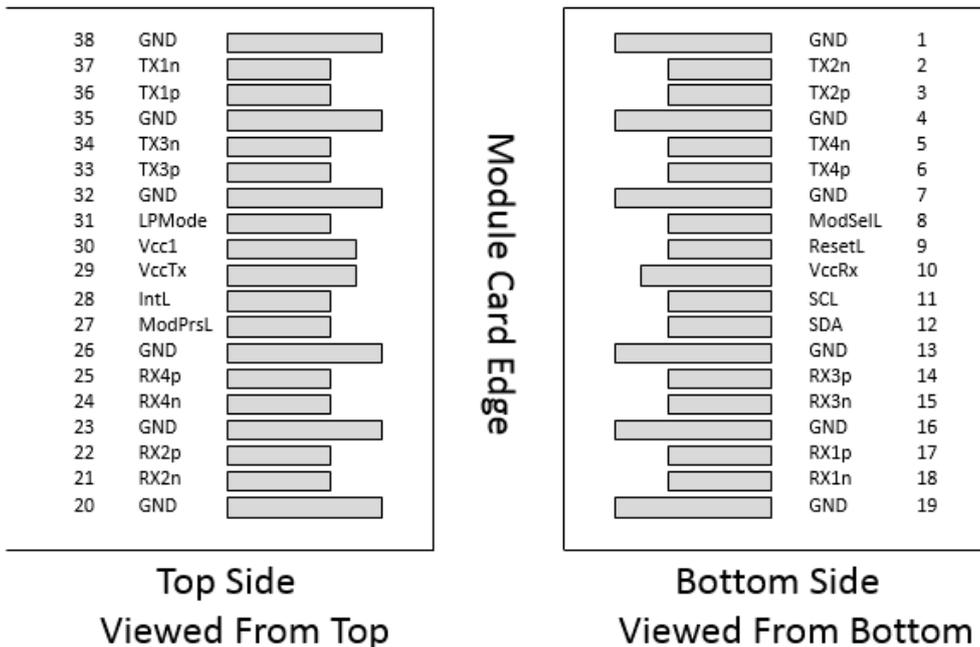
This module is designed for 80 km optical communication applications. It contains 4-lane optical transmitter, 4-lane optical receiver and module management block including 2 wire serial interfaces. The optical signals are multiplexed to a single-mode fiber through an industry standard LC connector. A block diagram is shown in Figure 1-1.

Figure 1-1 Transceiver block diagram



# 2. Pin Descriptions

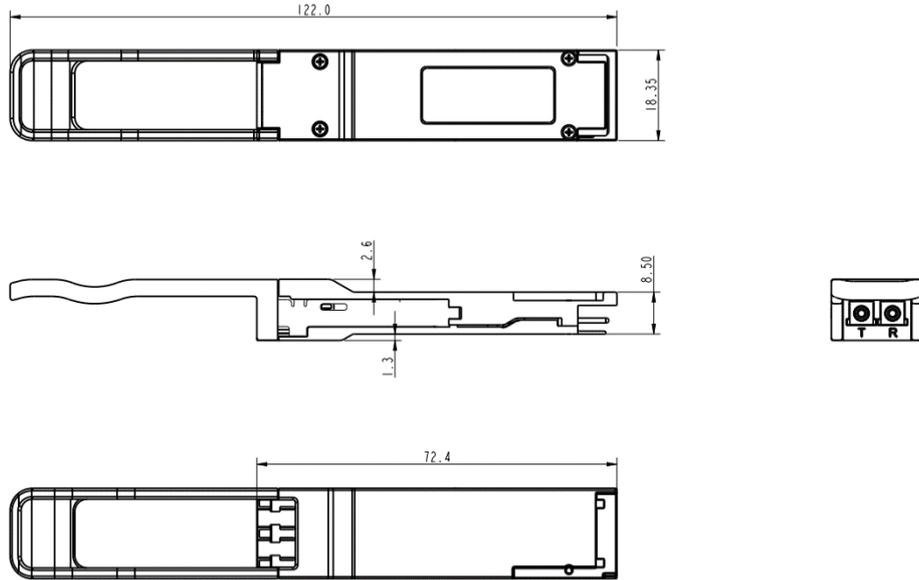
Figure 2-1 MSA compliant connector



### 3. Mechanical Specifications

100G ZR4 QSFP28 transceivers are compatible with the QSFP28 specification for pluggable form factor modules.

Figure 3-1 Mechanical dimensions



### 4. Ordering Information

Part Number	Description
OM9558ZS100	QSFP28 100GE ZR4 80 km
OM9558ZS105	QSFP28 100GE ZR4 80 km
OM9558ZS106	QSFP28 100GE ZR4 80 km
OM9558ZS107	QSFP28 100GE ZR4 80 km

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