

QSFP28 100GE CWDM4 2 km (OM3559CX100)

Databrief

Product Features

- QSFP28 MSA compliant
- 100GE CWDM4 MSA compliant
- 4 CWDM lanes MUX/DEMUX design
- 4 x 25G electrical interface (OIF CEI-28G-VSR)
- Maximum power consumption 3.5 W
- LC duplex connector
- 103.1 Gbps aggregate bit rate
- Up to 2 km transmission on single mode fiber with FEC
- Operating case temperature: 0 to 70°C
- Single 3.3 V power supply
- I2C digital management interface
- RoHS 2 compliant

Applications

- 100GE Ethernet
- Data Center Interconnect
- Enterprise networking

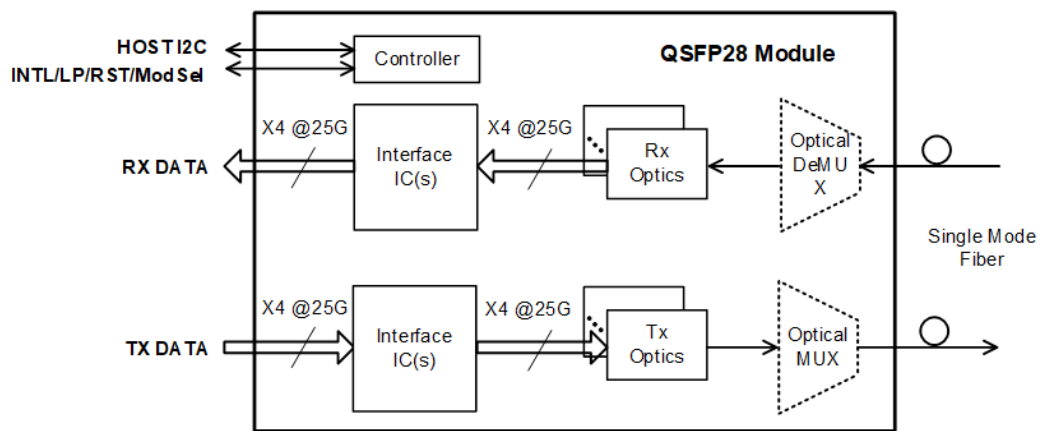


1. Description

OM3559CX100 is a QSFP28 transceiver module designed for 2 km optical communication applications with single mode fiber. It is compliant with 100GE CWDM4 MSA, QSFP28 MSA, IEEE 802.3bm Annex 83E and OIF CEI-28G-VSR standards. Digital diagnostic management interface (DDMI) is realized by I2C interface in compliance with SFF-8636. The module is RoHS 2 compliant.

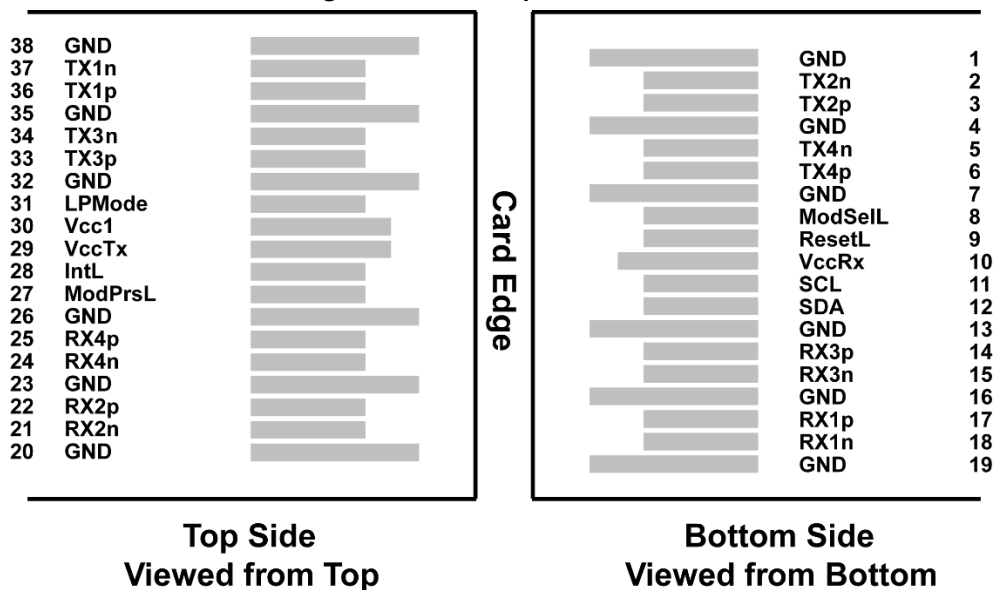
This module can convert 4-channel 25 Gbps electrical data to 4-channel optical signals, and multiplex them into a single channel for 100 Gbps optical transmission. Similarly, it optically de-multiplexes a 100 Gbps input into 4-channel signals, and converts them to 4-channel output electrical data on the receiver side. It has been designed to meet the harshest external operating conditions including temperature, humidity and EMI interference.

Figure 1-1 Transceiver block diagram



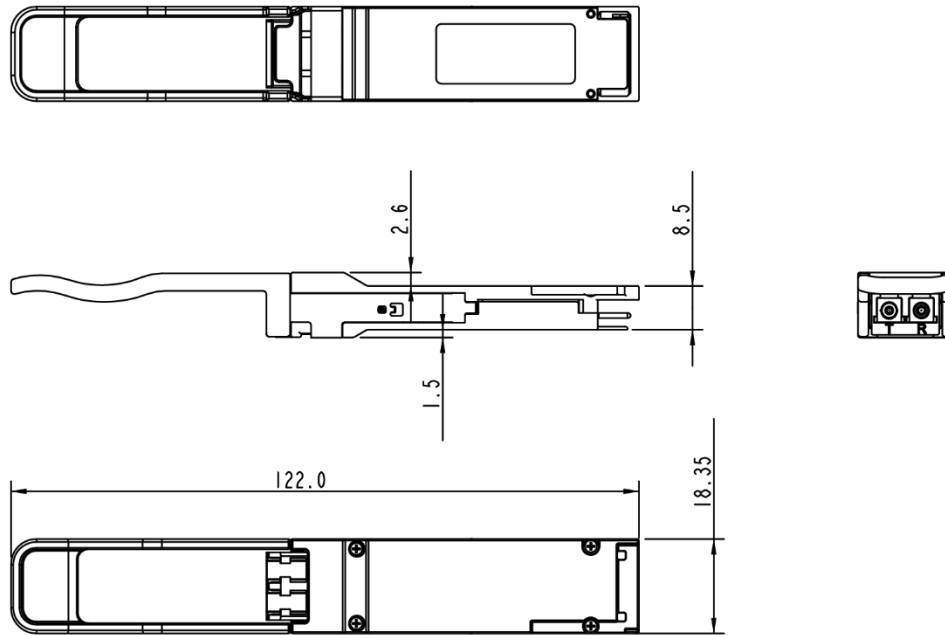
2. Pin Descriptions

Figure 2-1 MSA-compliant connector



3. Mechanical Specifications

Figure 3-1 Mechanical dimensions



4. Ordering Information

Part number	Description
OM3559CX100	QSFP28 100GE CWDM4 2 km Optical Transceiver Module

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