

QSFP28 100GE SR4 100 m (OM3538SX101)





Product Features

- QSFP28 MSA compliant
- IEEE 802.3bm 100GBASE-SR4 compliant
- 4 x 25.78125 Gbps electrical interface (CAUI-4)
- Transmitter: 1 x 4 Vcsel Array
- Reciever: 1 x 4 PINPD Array
- Digital diagnostic monitoring support
- Four independent full-duplex channels
- MPO-12 optical connector
- 103.125 Gbps aggregate bit rate
- Link distances up to 100 m OM4, 70 m OM3
- Operating case temperature ranges from 0°C to
- Single 3.3 V power supply
- RoHS 2 compliant

Applications

- 100GE Ethernet
- **Data Center Interconnect**
- Enterprise networking



1. Description

OM3538SX101 is a parallel full-duplex 100GE Quad Small Form-factor Pluggable (QSFP28) transceiver designed for short-range multi-lane data communication. It offers four independent data lanes based on 850 nm VCSEL/PD array technology, and each lane is capable of 25GE operation for an aggregate data rate of 100GE over 100 m OM4 MMF, 70 m OM3 MMF.

OM3538SX101 is compliant with the QSFP28 MSA and IEEE 802.3bm, PMD Type 100GBASE-SR4 and CAUI-4, integrating DDM function for real-time performance monitoring and troubleshooting.

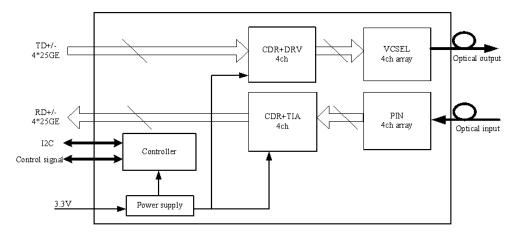


Figure 1-1 Transceiver block diagram

2. Pin Descriptions

OM3538SX101 is a hot-pluggable QSFP28 transceiver. Hot pluggable refers to plugging in or unplugging a module while the host board is powered. The QSFP28 host connector is a 0.8 mm pitch 38 position right angle improved connector specified by SFF-8661. QSFP28 module contacts mate with the host in the order of ground, power, followed by signal as illustrated by Figure 2-1.

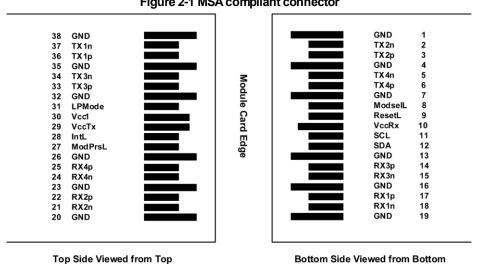
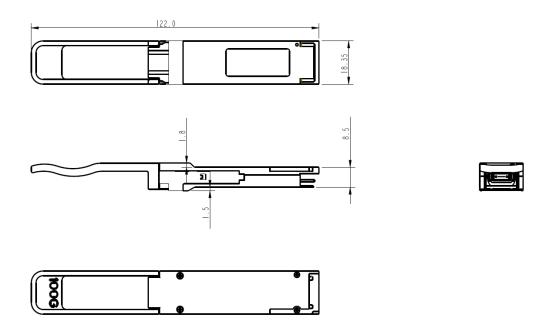


Figure 2-1 MSA compliant connector

3. Mechanical Specifications

Figure 3-1 Mechanical dimensions



4. Ordering Information

Part Number	Description
OM3538SX101	QSFP28 100GE SR4 100 m Optical Transceiver Module

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