

QSFP+ 40GE LX4 (OM3358SX100)

# Databrief

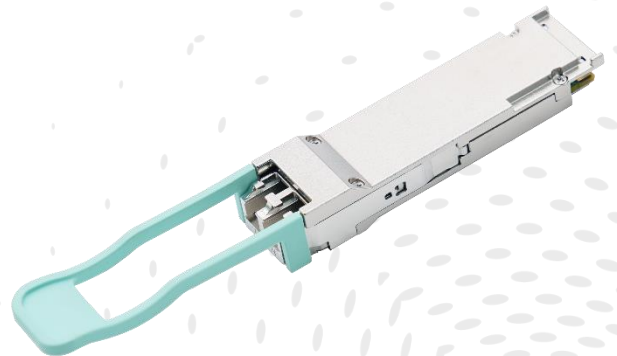
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## Product Features

- QSFP+ MSA compliant
- IEEE 802.3-2018 compliant
- 4 CWDM lanes MUX/DEMUX design
- 4x 10G electrical interface (XLPPi)
- Maximum power consumption 3.5 W
- LC duplex connector
- 41.25 Gbps aggregate bit rate
- Up to 150 m transmission on OM3/OM4 fiber without FEC
- Up to 2 km transmission on single mode fiber without FEC
- Operating case temperature: 0°C to 70°C
- Single 3.3 V power supply
- I2C digital management interface
- RoHS 2 compliant

## Applications

- 40GE Ethernet
- Data Center Interconnect
- Enterprise networking

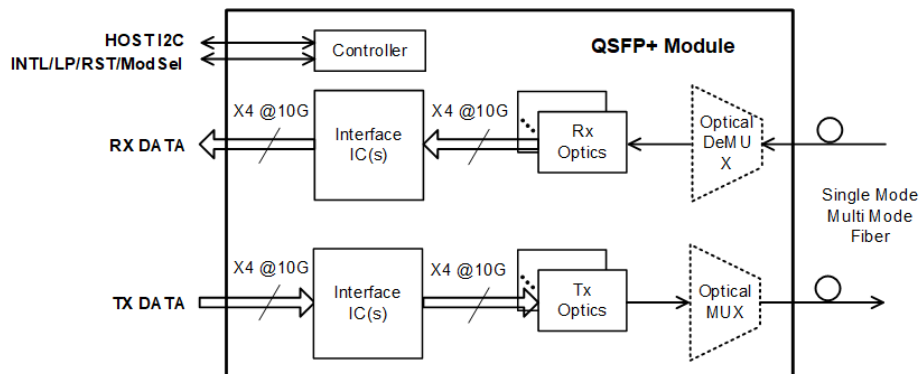


## 1. Description

OM3358SX100 is a QSFP+ transceiver module designed for 2 km SM Fiber or 150m OM3/OM4 MM fiber optical communication applications. It is compliant with IEEE 802.3-2018 40GBASE-LR4 (partly compliant), IEEE 802.3-2018 Annex 86A, QSFP+ MSA standards. Digital diagnostic management interface (DDMI) is realized by I2C interface in compliance with SFF-8636. The module is RoHS 2 compliant.

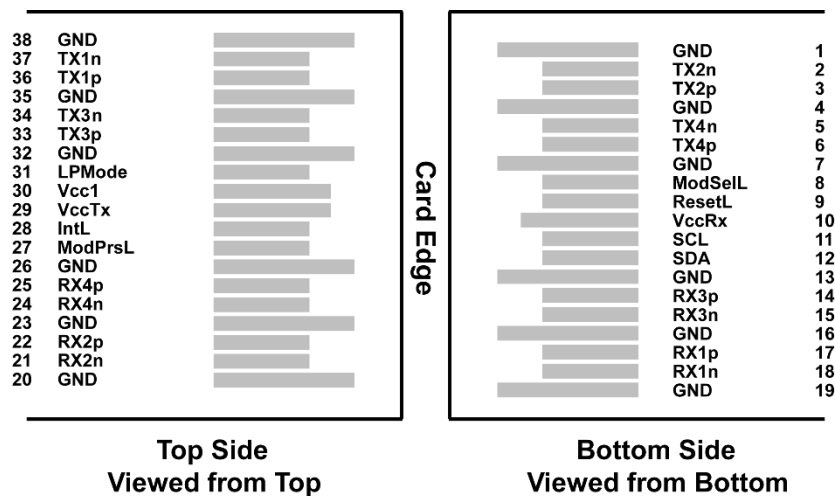
This module can convert 4-channel 10 Gbps electrical data to 4-channel optical signals, and multiplex them into a single channel for 40 Gbps optical transmission. Similarly, it optically de-multiplexes a 40 Gbps input into 4-channel signals, and converts them to 4-channel output electrical data on the 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



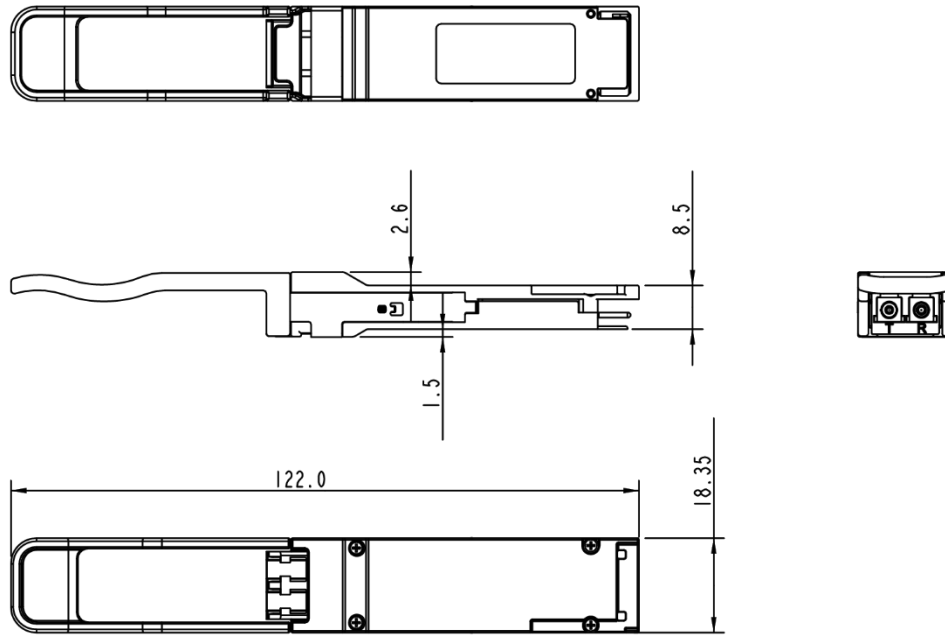
## 2. Pin Descriptions

Figure 2-1 MSA compliant connector



### 3. Mechanical Specifications

Figure 3-1 Mechanical dimensions



### 4. Ordering Information

Part number	Description
OM3358SX100	QSFP+ 40GE LX4

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