

QSFP-DD 400GE LR4 10 km (OM3658LS100)

Databrief

Product Features

- QSFP-DD MSA rev5.0 compliant
- 100G Lambda MSA compliant
- 400G-LR4-10 Technical Specification MSA Rev1.0 compliant
- QSFP-DD CMIS4.0 management interface compliant
- Non-hermetic package design
- 4 CWDM lanes MUX/DEMUX design
- 8 x 53.125 Gbps PAM4 electrical interface (400GAUI-8)
- Maximum power consumption 9 W
- LC duplex connector
- 425 Gbps aggregate bit rate
- Single 3.3 V power supply
- RoHS 2 compliant

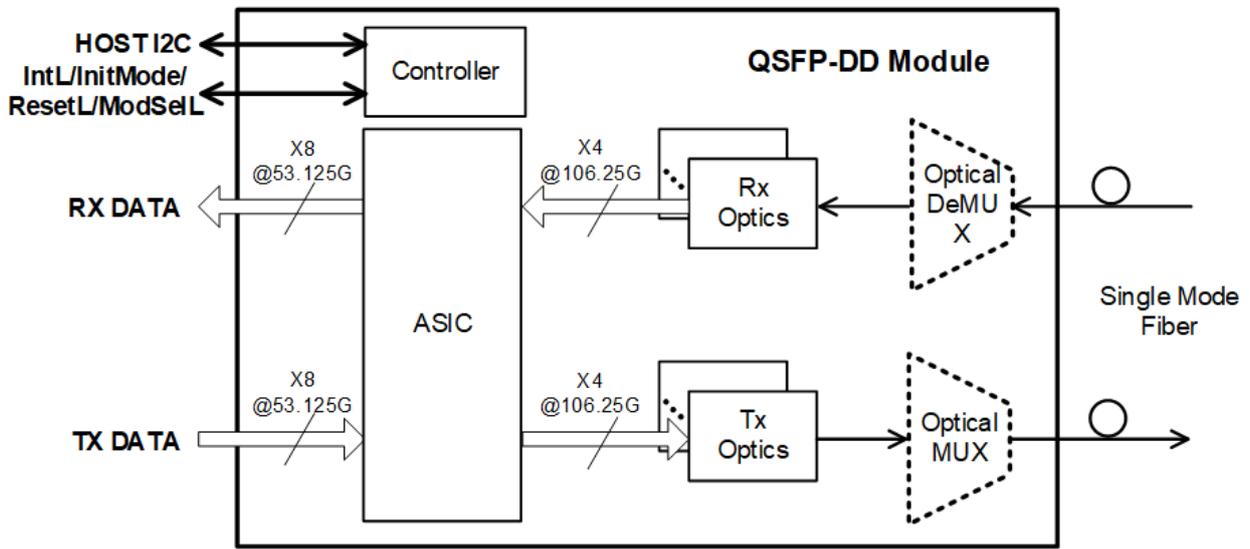
Applications

- 400G Ethernet
- Data center network

1. Description

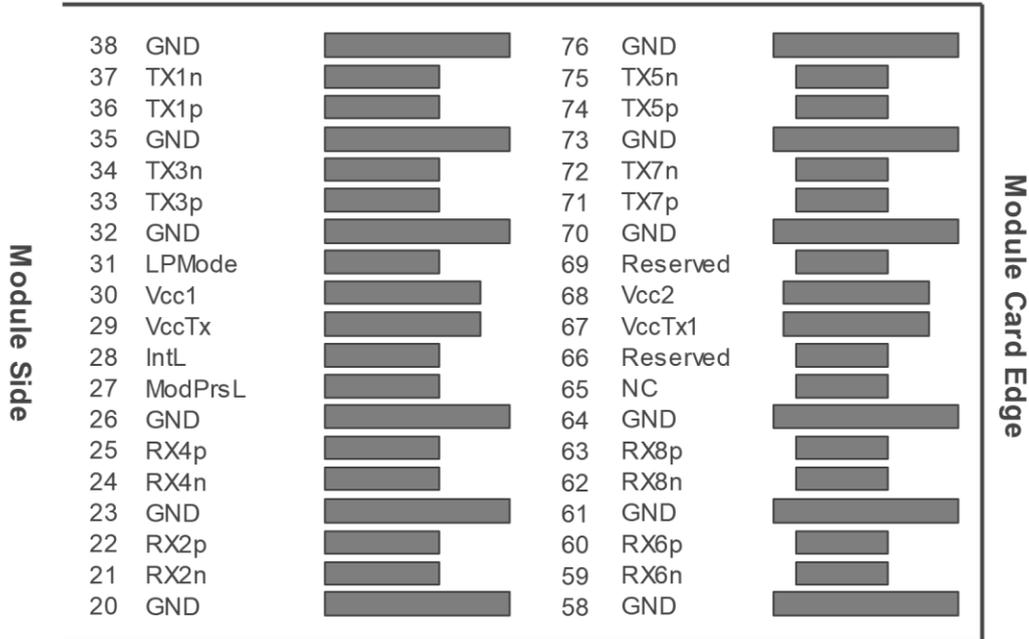
OM3658LS100 is a transceiver module designed for 10 km optical communication applications, and it is compliant with 100G Lambda MSA standard. This module can convert 8-channel 53.125 Gbps electrical data to 4-channel 106.25 Gbps optical signals, and multiplex them into a single channel for 425 Gbps optical transmission. Similarly, it optically de-multiplexes a 425 Gbps input into 4-channel signals, and converts them to 8-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. The module offers very high functionality and feature integration, accessible via the I2C interface.

Figure 1-1 Transceiver block diagram

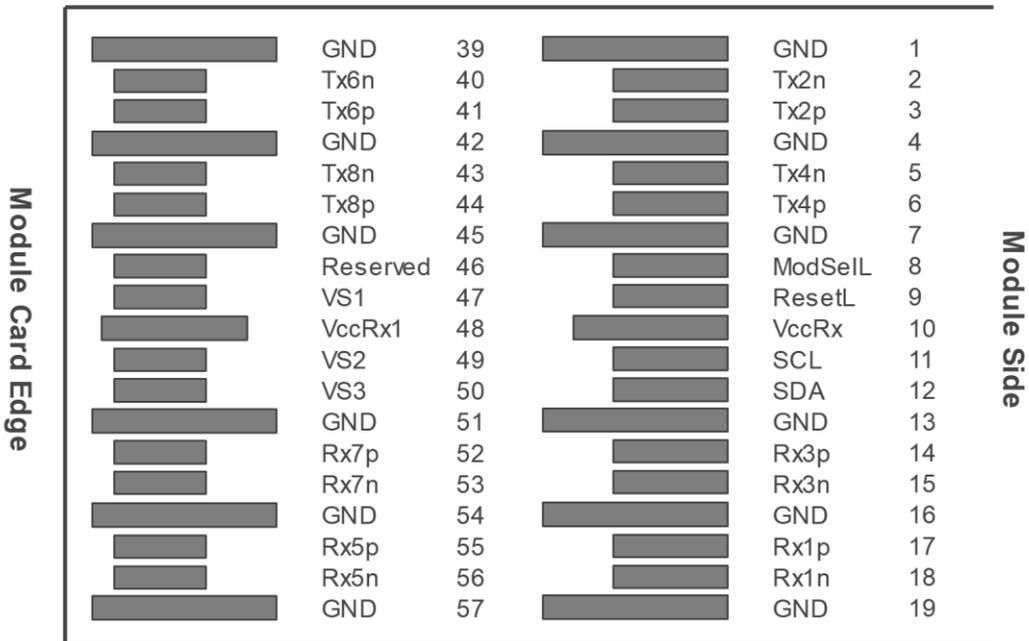


2. Pin Descriptions

Figure 2-1 MSA-compliant connector



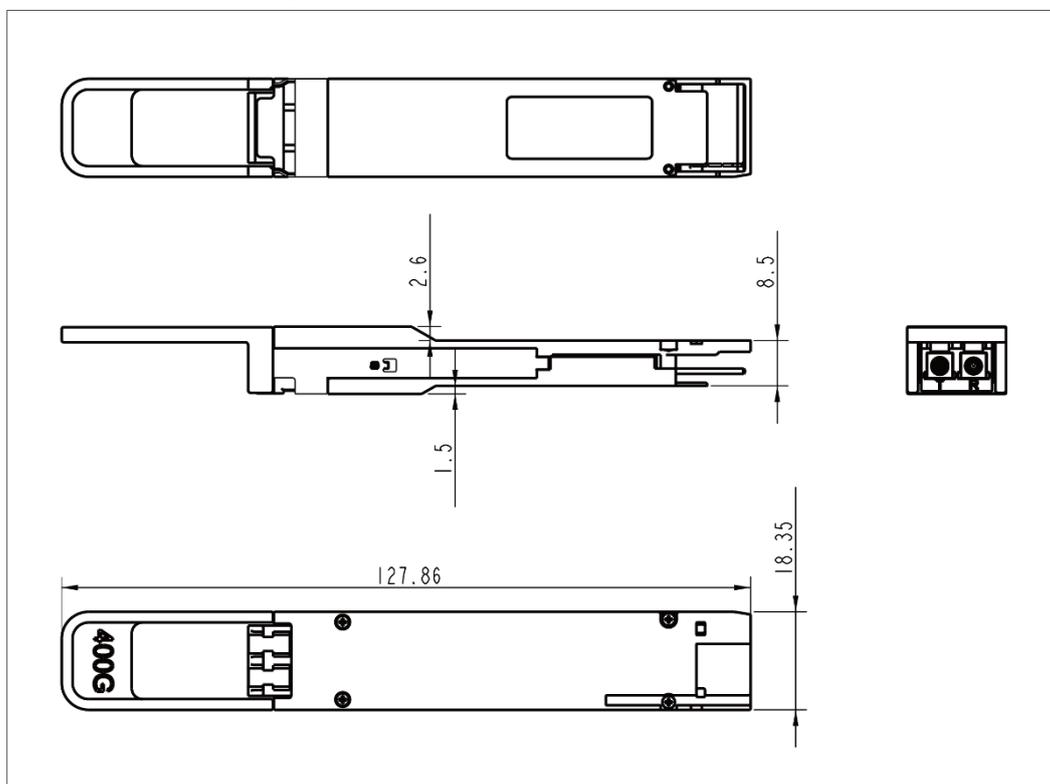
Top Side Viewed from Top



Bottom Side Viewed from Bottom

3. Mechanical Specifications

Figure 3-1 OM3658LS100 mechanical dimensions



4. Ordering Information

Part number	Description
OM3658LS100	QSFP-DD-400GE-LR4-10

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