

QSFP+ 40GE iLR4 2 km (OM3358FX100)





## **Product Features**

- QSFP+ MSA compliant
- IEEE 802.3-2018 compliant
- 4 CWDM lanes MUX/DEMUX design
- 4 x 10G electrical interface (XLPPI)
- Maximum power consumption 3.5 W
- LC duplex connector
- 41.25 Gbps aggregate bit rate
- Up to 2 km transmission on single mode fiber without FEC
- Operating case temperature: 0 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

HiSilicon's OM3358FX100 is a QSFP+ transceiver module designed for 2 km optical communication applications with single mode fiber. 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 mul-tiplex 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.

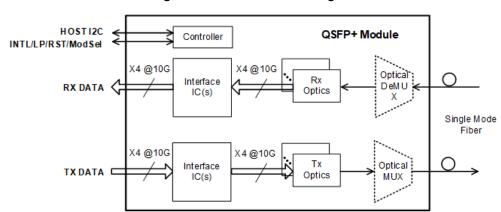


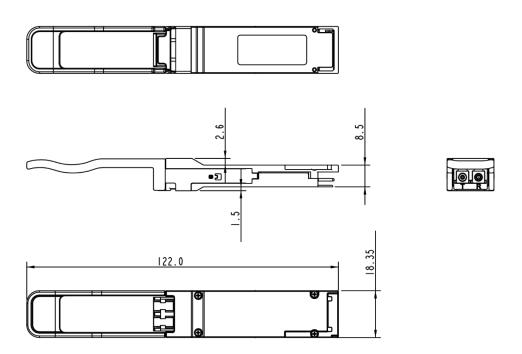
Figure 1-1 Transceiver block diagram

## 2. Pin Descriptions

Figure 2-1 MSA-compliant connector **GND GND** 37 TX1n 2 3 4 5 6 7 8 9 10 TX2n 36 TX1p 35 34 33 TX2p GND GND TX3n TX4n TX3p TX4p 32 GND GND 31 30 Card **LPMode** ModSelL Vcc1 ResetL 29 28 VccTx VccRx Edge IntL 11 SCL 27 26 25 ModPrsL 12 13 14 SDA **GND GND** RX4p RX3p 24 RX4n RX3n 15 23 22 21 GND GND 16 RX2p 17 RX1p RX2n RX1n 18 **GND GND Top Side Bottom Side Viewed from Top Viewed from Bottom** 

## 3. Mechanical Specifications

Figure 3-1 Mechanical dimensions



# 4. Ordering Information

Part number	Description
OM3358FX100	QSFP+ 40GE iLR4 2 km

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