

QSFP-DD 400GE SR8 100 m (OM3680SX200)

Databrief

Product Features

- QSFP-DD MSA compliant
- QSFP-DD CMIS4.0 management interface compliant
- IEEE 802.3cm 400GBASE-SR8 standard compliant
- IEEE 802.3bs 400GAUI-8 standard compliant
- Digital diagnostic functions
- 8-channel full-duplex transceiver module
- 425 Gbps aggregate bit rate
- Maximum link length of 70 m OM3, 100 m OM4 with FEC
- Single MPO-16/APC receptacle
- Maximum power dissipation < 10 W
- Operating case temperature range 0 to 70°C
- Single 3.3 V power supply
- RoHS 2 compliant

Applications

- 400G Ethernet
- Data center network

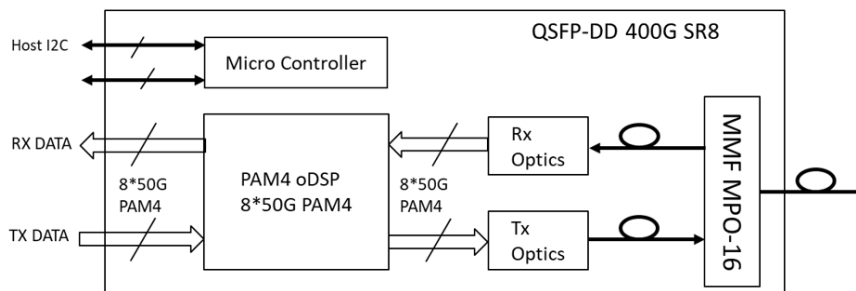


1. Function Descriptions

OM3680SX200 is a parallel 400GE Quad Small Form Factor Pluggable Double Density (QSFP-DD) SR8 optical module designed for optical communication applications. The optical module uses a 4-level pulse amplitude modulation (PAM4) format. The optical module provides point-to-point 400 Gigabit Ethernet links over eight pairs of multimode fiber, with a reach of up to 100 m for OM4 (MMF) and 70 m for OM3 (MMF).

It is compliant with QSFP-DD MSA standard and IEEE 802.3cm 400GBASE-SR8 standard and IEEE 802.3bs 400GAUI-8 standard. Digital diagnostics functions are available via the I2C interface, as specified by the QSFP-DD MSA.

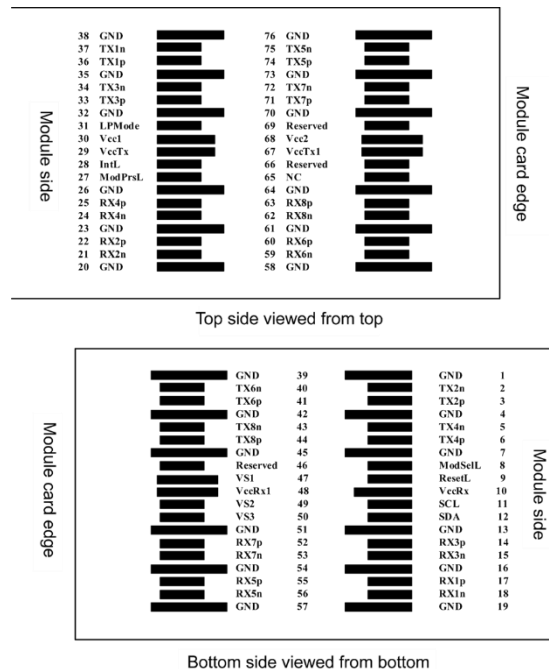
Figure 1-1 Transceiver block diagram



2. Pin Descriptions

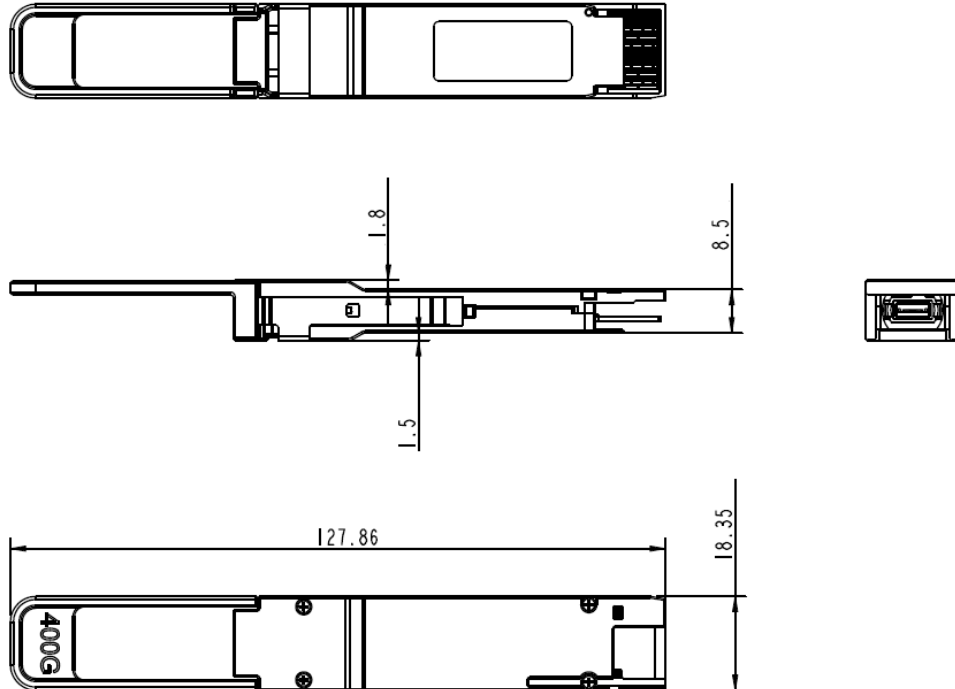
The QSFP-DD SR8 module edge connector consists of a single paddle card with 38 pads on the top and 38 pads on the bottom for a total of 76 pads. The pads are defined in such a manner to accommodate insertion of a QSFP module into a QSFP-DD receptacle.

Figure 2-1 MSA-compliant connector



3. Mechanical Specifications

Figure 3-1 OM3680SX200 mechanical dimensions



4. Ordering Information

Part number	Description
OM3680SX200	QSFP-DD 400GE SR8 100 m OM4 & 70 m OM3

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