



56Gb/s QSFP+ SR4-Lite Optical Transceiver



MC2207411-SR4L

The Mellanox® 56Gb/s QSFP+ module contains four fiber optic transceivers, each operating at data rates of up to 14.0625Gb/s. This module provides reliable transport for aggregate data rates up to 56Gb/s Virtual Port Interconnect (VPI). This SFF-8685 compliant module can be used for either Ethernet or InfiniBand link protocols.

The Mellanox 56GbE SR4-Lite transceiver is optimized for low-power consumption at reduced reaches of up to 30m where longer reaches are not necessary. The SR4-Lite transceiver in low-power mode offers 0.8W power consumption versus standard SR4s.

Rigorous production testing ensures the best out-of-the-box installation experience, performance and durability.

Table 1 - Absolute Maximum Ratings

Parameter	Minimum	Maximum	Units
Supply voltage	-0.5	3.6	V
Data input voltage	-0.3	V _{cc} + 0.3	V
Control input voltage	-0.3	V _{cc} + 0.3	V
Damage threshold, per lane	3.4	---	dBm
Storage temperature	-40	85	°C

Table 2 - Operational Specifications

Parameter	Minimum	Typical	Maximum	Units
Supply voltage (V _{cc})	3.15	3.3	3.45	V
Power consumption at default Rx settings	---	1.0	1.2	W
Power consumption at low Rx settings	---	0.8	1.0	W
Supply noise rejection	---	---	50	mVpp
Operating case temperature	0	---	70	°C
Operating relative humidity	0	---	85	%

HIGHLIGHTS

- Up 56Gb/s data rate
- Configurable as 4x10G Ethernet and 4x14G InfiniBand
- Programmable Rx output amplitude
- 0.8W power consumption at low Rx output amplitude
- SFF-8685 compliant
- Operating case temperature of 0-70°C
- 3.3V power supply
- BER better than 1E-15
- Hot pluggable
- Class 1 Laser Safety
- Maximum link length of 30m on OM3 multimode fiber
- Single 1x12 MPO receptacle
- RoHS compliant

Mechanical Schematics

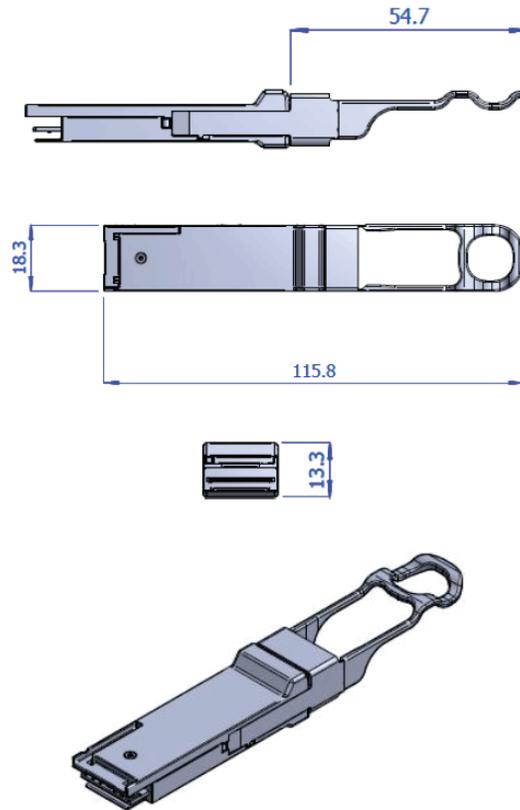


Table 3 - Part Number and Description

OPN	Description
MC2207411-SR4L	Mellanox® optical module, VPI, up to 56Gb/s, QSFP, MPO, 850nm, up to 30m

Warranty Information

Mellanox optical transceivers include a 1-year limited hardware warranty, which covers parts repair or replacement.