



1GbE SFP SX Optical Transceiver

MC3208011-SX

Mellanox® active optical cable modules provide outstanding performance for high-bandwidth fabrics, extending the benefits of Mellanox's high-performance for Ethernet adapters and switches throughout the network.

Mellanox certified modules are 100% tested on Mellanox equipment to ensure optimal signal integrity and the best end-to-end performance.

Mellanox SFP optical modules use an LC-LC connector type to connect a single mode or multimode fiber cable.

Mellanox optical solutions provide short, medium and long range scalability for all topologies, utilizing innovative optical technologies to enable extremely high signal integrity and reliability. 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	4.0	V
Storage ambient temperature	-40	85	°C
Operating case temperature	-20	85	°C
Humidity	0	85	%

Table 2 - Operational Specifications

Parameter	Minimum	Typical	Maximum	Units
Data rate - BR	---	1.062 1.25 2.125	---	Gb/s
Data rate - BER	---	---	10 ⁻¹²	
Cable length Fiber on 50/125um MMF	---	---	550 @ 1.062 Gb/s 300 @ 2.125 Gb/s	m
Cable length Fiber on 62.5/125um MMF	---	---	300 @ 1.062 Gb/s 150 @ 2.125 Gb/s	m

LinkX[†]

HIGHLIGHTS

- Up to 2.125 Gb/s bi-directional data links
- Hot-pluggable SFP
- 850nm oxide VCSEL laser transmitter
- Duplex LC connector
- RoHS compliant and lead free
- Up to 550m on 50/125 μm MMF
- Up to 300m on 62.5/125 μm MMF
- Single 3.3V power supply
- Low power dissipation
- Tested in Mellanox's end-to-end environment

Mechanical Schematics

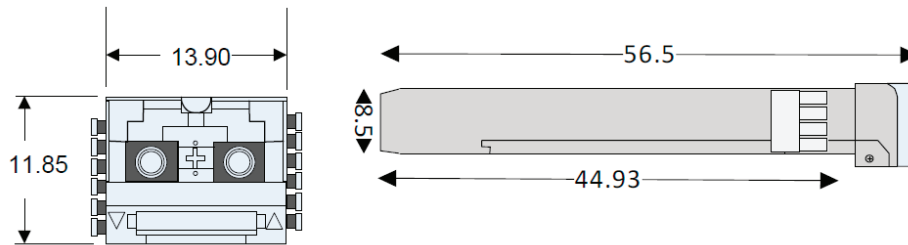


Table 3 - Part Number and Description

OPN	Description
MC3208011-SX	Mellanox® Optical module, ETH 1GbE, 1Gb/s, SFP, LC-LC, SX 850nm, up to 500m

Warranty Information

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