



# LinkX™ Optical Modules



Mellanox's LinkX active optical and RJ45 cable modules provide outstanding performance for high-bandwidth fabrics, extending the benefits of Mellanox's high-performance InfiniBand and Ethernet adapters and switches throughout the network.

In addition to meeting or exceeding InfiniBand Trade Association (IBTA) and IEEE standards, Mellanox certified modules are 100% tested on Mellanox equipment to ensure optimal signal integrity and the best end-to-end performance.

- Mellanox QSFP SR4 module uses MTP/MPO connector type to connect an OM3/OM4 fiber cable.
- Mellanox QSFP SR4E module uses MPO connector type to connect OM3 and OM4 fiber cables
- Mellanox QSFP LR4 module uses LC-LC connector type to connect a fiber cable
- Mellanox SFP/ SFP+ optical modules use LC-LC connector type to connect a single mode or multimode fiber cable
- Mellanox Base-T modules use RJ45 connector type to connect RJ45 cable

## HIGHLIGHTS

- Low power consumption
- Compliant with SFF-8436
- Compliant with SFF-8431
- Compliant with SFF-8432
- Low insertion loss
- BER Better than 10<sup>-15</sup>
- Tested in Mellanox's end-to-end environment
- RoHS compliant

Table 1 - Modules Specifications and Ordering Information

Form Factor	Application	Connector	Cable Length (up to)	Wavelength	Supply Voltage [V]		Max Power Consumption [W]	Part Number
					Min	Max		
QSFP	Ethernet 40GbE	MPO	300m	850nm	-0.5	3.6	1.2	MC2210411-SR4E
QSFP	Ethernet 40GbE /InfiniBand FDR10,QDR	MPO	100m	850nm	3.15	3.63	1.5	MC2210411-SR4
QSFP	Ethernet 40GbE /InfiniBand FDR10,QDR	LC-LC	10km	1310nm	3.1	3.5	3.5	MC2210511-LR4
SFP+	Ethernet 10GbE	LC-LC	300m	850nm	3.15	3.8	1	MFM1T02A-SR
SFP	Ethernet 10GbE	LC-LC	10km	1310nm	3.15	3.8	1	MFM1T02A-LR
SFP	Ethernet 1GbE	LC-LC	500m	850nm	3.15	4	1	MC3208011-SX
SFP	Ethernet 1GbE	RJ-45 Base T	100m	-	3.13	3.47	1	MC3208411-T

Table 2 - Absolute Maximum Ratings

Parameter	Min	Max	Units
Operating Case Temperature	0	70	°C
Storage Ambient Temperature	0	75	°C

## Warranty Information

The Mellanox LinkX Optical Modules include a 1 year limited hardware warranty, which covers parts repair or replacement.

## Additional Information

For more information about Mellanox LinkX modules, please contact your Mellanox Technologies sales representative or visit: <http://www.mellanox.com=>Products=>Cables & Modules=>Modules>



350 Oakmead Parkway,  
Suite 100  
Sunnyvale, CA 94085  
Tel: 408-970-3400  
Fax: 408-970-3403  
[www.mellanox.com](http://www.mellanox.com)

© Copyright 2015, Mellanox Technologies. All rights reserved. Mellanox, BridgeX, ConnectX, CORE-Direct, InfiniBridge, InfiniHost, InfiniScale, LinkX, MLNX-OS, PhyX, SwitchX, Virtual Protocol Interconnect and Voltaire are registered trademarks of Mellanox Technologies, Ltd. Connect-IB, CoolBox, FabricIT, Mellanox Federal Systems, Mellanox Software Defined Storage, MetroX, MetroDX, Mellanox Open Ethernet, Mellanox Virtual Modular Switch, Open Ethernet, ScalableHPC, Unbreakable-Link, UFM and Unified Fabric Manager are trademarks of Mellanox Technologies, Ltd. All other trademarks are property of their respective owners.