Uncompromising Integrity

Making 100Gb/s deployments as easy as 10Gb/s
Supporting Data Rates up to 100Gb/s

Mellanox 100Gb/s LinkX cables and transceivers make 100Gb/s deployments as easy as 10Gb/s. A wide range of products supports Ethernet and InfiniBand applications with reaches from 0.5m to more than 10km. In addition to meeting or exceeding IBTA and IEEE standards, LinkX certified products are 100% tested on Mellanox equipment to ensure optimal signal integrity and the best end-to-end performance.

With Mellanox cables and transceivers, you will experience troublefree installation and long-term operation.

COMMITMENT TO QUALITY

Mellanox Technologies’ commitment to quality extends across every employee and into every aspect of our business including semiconductor, system, cable, and software design and manufacturing. The overarching goal is to supply our customers with the best solutions and guarantee their satisfaction.
Mellanox 100Gb/s LinkX cables and transceivers are available in either the SFP28 form factor for single channel devices and QSFP28 form factor for 4-channel devices. Splitters and adapters connect single channel with 4-channel products.

VALUE PROPOSITION

■ Comprehensive portfolio for 10/25/40/50/100Gb/s applications
■ Products for reaches from 0.5m to more than 10km
■ Maximize performance by leveraging high speed expertise innovative interconnect solutions
■ Comprehensive portfolio to address all needs
■ Cluster level testing for best BER 10E-15
■ Interoperability testing - Mellanox and competitors’ platforms
■ Flexible supply chain to ensure availability and cost
■ High volume manufacturing experience
Copper Cables
LinkX passive copper cables provide robust connections and require no power from the attached networking equipment. Also called Direct Attach Copper or DACs, copper cables provide highly reliable, low-cost solutions for reaches of a few meters.

LinkX active copper cables are a thinner alternative to the passive cables, and are available in a variety of lengths.

Optical Cables
LinkX optical solutions provide long range scalability for all topologies and utilize innovative optical technologies to enable extremely high signal integrity and reliability.

LinkX Active Optical Cables are the best solution for point-to-point links from 5m to 200m. Available for both Ethernet and InfiniBand applications, AOCs are as easy to install as copper cables. AOCs have the advantage of longer reaches, lighter cabling and more flexible routing.

The 100Gb/s VCSEL based AOC supports reaches up to 100m while the 100Gb/s silicon photonics version supports reaches up to 200m.
Optical Transceivers

100Gb/s QSFP28 1550 PSM4 Transceiver
Based upon low-power silicon photonics, the Mellanox parallel single mode (PSM4) transceiver can support data center reaches of up to 2km, using the QSFP28 form factor.

100Gb/s QSFP28 SR4 Transceiver
The low-power VSEL-based SR4 transceiver can support reaches of up to 100m on multi-mode fiber (MMF).

Additionally a wide portfolio of transceivers are available for 10/25/40/50/100Gb/s applications.

Quad to Serial Small Form Factor Pluggable (QSA) Adapter
The Quad to Single Small Form Factor Pluggable Adapter (QSFP+ to SFP+ adapter or QSA) is the world's first solution for the QSFP+ to SFP+ conversion challenge. The QSA enables smooth, cost-effective, connections between 40GbE ports using contemporary QSFP+ ports and 1 or 10GbE networks using existing SFP or SFP+ based cabling. Mellanox QSA conforms to the SFF-8431 SFP+ and SFF-8436 QSFP+ connector standards.
FEATURE SUMMARY

- Compliant to industry standards
  - InfiniBand Architecture specification
  - IEEE 802.3 10GBASE-CX4
  - IEEE 802.3 10GBASE-SR and LR
  - IEEE 802.3ba 40Gig Ethernet
  - IEEE 802.3ba 100Gig Ethernet
  - IEEE 802.3bs 100Gig Ethernet
  - 10GSFP+Cu
  - QSFP+ and QSFP28 MSA SFF-8436
  - SFP+ and SFP28 MSA SFF-8431
- 100% production tested on Mellanox adapters and switches
- Superior signal integrity
- Bit Error Rate (BER) better than 10-15
- Low crosstalk
- Low insertion loss
- Matched impedance
- Secure latching mechanism
- Serial numbers printed at each end
- RoHS-6 compliant
- 1-year warranty

QSA KEY FEATURES

- Compliant to industry standards
  - QSFP+ and QSFP28 MSA SFF-8436
  - SFP+ and SFP28 MSA SFF-8431
- Superior signal integrity
- Low crosstalk
- Low insertion loss
- Matched impedance
- Secure latching mechanism
- RoHS-6 compliant
- 1-year warranty