Mellanox MFS1S00-H015E Datasheet

Mellanox MFS1S00-H015E active fiber cable, IB HDR, up to 200Gb/s, QSFP56, LSZH, black pulltab, 15m

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Mellanox MFS1S00-HxxxE is a QSFP56 VCSEL-based (Vertical Cavity Surface-Emitting Laser) active optical cable (AOC) designed for use in 200Gb/s InfiniBand HDR systems. The MFS1S00-HxxxE AOC offers high port density and configurability, and a much longer reach than passive copper cables in the data centers. Since the AOC is hot pluggable, it is easy to install and replace.

MFS1S00-HxxxE has a standard SFF-8665 compliant QSFP56 port on the electrical side towards the host system. It contains four multi-mode fibers (MMF) optic transceivers per end; each operating at data rates of up to 50Gb/s. MFS1S00-HxxxE offers selectable retiming per lane for both its optical transmitters and receivers up to 50Gbp/s rates.

Rigorous production testing ensures the best out-of-the-box installation experience, performance and durability. Mellanox's unique quality active fiber cable solutions provide power-efficient connectivity for data center interconnects. They enable higher port bandwidth, density and configurability at a low cost, and reduced power requirement in the data centers.

Features

- Supports IBTA InfiniBand HDR
- Up to 200Gb/s data rate
- 4x 50Gb/s PAM4 modulation
- Programmable Rx output amplitude and pre-emphasis

- SFF-8665 compliant QSFP56 port
- Single 3.3V power supply
- 4.35W power dissipation (typ., each end, with retiming)
- Bit Error Rate (BER) better than 1E-15 with Mellanox systems
- Up to 100m length
- Hot pluggable
- RoHS compliant
- SFF-8636 compliant IC management interface

For more information of this Mellanox MFS1S00-H015E, please visit Mellanox website:

https://network.nvidia.com/related-docs/prod_cables/PB_MFS1S00-HxxxE_200Gbps_QSFP56_AOC.pdf

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