

# Mellanox MFA1A00-E003 Datasheet



Mellanox MFA1A00-E003 active fiber cable, IB EDR, up to 100Gb/s, QSFP, LSZH, 3m

MFA1A00-E003

Mellanox 100Gb/s QSFP28 MMF Active Optical Cables

NVIDIA Mellanox MFA1A00-Exxx are QSFP28 VCSEL-based (Vertical Cavity Surface-Emitting Laser) active optical cables designed for use in InfiniBand 100Gb/s EDR (Enhanced Data Rate) systems.

MFA1A00-Exxx 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.

MFA1A00-Exxx offers selectable retiming per lane for both its optical transmitters and receivers for the 25Gb/s rate, but the AOC also supports lower bit rates without retiming. The transmitters have programmable input equalizers and input squelch function, while the receivers have programmable output amplitude and pre-emphasis.

These 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.

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

### Highlights

- Up to 100Gb/s data rate
- Programmable Rx output amplitude and pre-emphasis
- Programmable Tx input equalizer
- Selectable retiming
- SFF-8665 compliant QSFP28 port
- Single 3.3V power supply
- 2.2W power dissipation (typ, each end, with retiming)
- Up to 100m length
- Hot pluggable
- RoHS compliant
- SFF-8636 compliant I2C management interface

For more specifications of this MFA1A00-E003, please visit below Mellanox website:

[https://www.mellanox.com/related-docs/prod\\_cables/PB\\_MFA1A00-Exxx\\_100Gbps\\_QSFP28\\_MMF\\_AOC.pdf](https://www.mellanox.com/related-docs/prod_cables/PB_MFA1A00-Exxx_100Gbps_QSFP28_MMF_AOC.pdf)

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