

Mellanox MMA1B00-B150D Datasheet



Mellanox MMA1B00-B150D 40GbE QSFP MPO 850nm SR4 up to 150m DDMI LinkX Active Optical Transceiver

MMA1B00-B150D

NVIDIA MMA1B00-B150D Optical Transceiver 40GbE QSFP+ MPO 850nm SR4 up to 150m DDMI

40GbE QSFP+ SR4 Optical Transceiver

NVIDIA Networking MMA1B00-B150D is a 4-channel, pluggable, QSFP+, VCSEL-based (Vertical Cavity Surface Emitting Laser) optical transceiver designed for up to 150m reach in 40Gb/s Ethernet networks operating at 4x10.3125Gb/s. This transceiver incorporates integrated circuit technology, which combines high performance at low power. The transceiver operates over parallel multi-mode fiber (MMF), using a nominal wavelength of 850nm, and is SFF-8436 compliant.

The MMA1B00-B150D transceiver has a standard QSFP+ connector on the electrical side towards the host system for power, control/monitoring and high-speed data. The optical interface is composed of four optical channels/fibers in each direction, intended for a parallel MMF cable via a standard MPO connector. The transceiver can operate 10.3125Gb/s without retiming. The transceiver provides digital diagnostic monitoring of supply voltage, temperature, transmit/receive power, and VCSEL bias.

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

Highlights

- 40GbE (4x10GbE) Ethernet
- Programmable Tx input equalizer
- Programmable Rx output amplitude
- Programmable Rx output emphasis
- SFF-8436 compliant QSFP+
- Single 3.3V supply
- QSFP+ power class 1
- BER better than 1E-15
- Class 1 laser safety
- Up to 150m on OM4 and 100m on OM3 multi-mode fiber
- Digital diagnostic monitoring (DDM)
- Hot pluggable
- RoHS compliant
- IEEE 802.3 40GBASE-SR4 compliant
- SFF-8636 compliant I2C management interface

For more information of this Mellanox MMA1B00-B150D, please visit NVIDIA website:

<https://store.nvidia.com/en-us/networking/store/product/MMA1B00-B150D/NVIDIAMMA1B00B150DOpticalTransceiver40GbEQSFPMP0SR4/>

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