

Mellanox MMA1L30-CM Datasheet



Mellanox MMA1L30-CM 100GBASE-CWDM4 QSFP28 1310nm 2km DOM Duplex LC SMF Optical Transceiver Module

MMA1L30-CM

NVIDIA MMA1L30-CM Optical Transceiver 100GbE QSFP28 LC-LC 1310nm CWDM4 up to 2km

100GbE QSFP28 CWDM4 Optical Transceiver

NVIDIA Networking MMA1L30-CM transceiver is a single mode, 4-channel (CWDM4), QSFP28, optical transceiver designed for use in 100 Gigabit Ethernet (GbE) links on up to 2 km of single mode fiber. It is also qualified for use in InfiniBand EDR end-to-end systems.

Two options of the transceiver are available with identical functionality but with minor mechanical differences. The module (in both options) converts 4 input channels of 25 Gb/s electrical data to 4 channels of CWDM optical signals and then multiplexes them into a single fiber, using a nominal wavelength of 1310 nm, for 100 Gb/s optical transmission. Reversely on the receiver side, the 100 Gb/s optical input is demultiplexed into 4 channels of CWDM optical signals and then converted to 4 output channels of electrical data.

MMA1L30-CM has selectable retiming as specified in the SFF-8636 MSA. This enables the transceiver to be used in both 40 GbE and 100 GbE applications.

Digital diagnostic monitoring functions for temperature, supply voltage, and optical power are available via the two-wire (I2C) management interface, as specified by the QSFP28 MSA.

The optical connector is a duplex LC/UPC (un-angled) connector intended for a pair of single mode fibers.

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

Highlights

- Up to 100 Gb/s data rate
- SFF-8665 compliant QSFP28
- CWDM4 MSA Revision 1.1 compliant
- Single 3.3 V supply, hot pluggable
- QSFP28 power class 4 (3.5 W max)
- Operating case temperature: 0C to 70C
- Duplex LC connector
- Up to 2 km reach on single mode fiber at 100 Gb/s
- 40 Gb/s operation for backward compatibility
- Two Wire Serial Interface with Digital Diagnostic Monitoring
- RoHS compliant

- Applications
- IEEE 802.3bm CAUI-4 100G Ethernet
- Qualified for use in NVIDIA Ethernet and InfiniBand end-to-end systems

For more information of this NVIDIA Mellanox MMA1L30-CM, please visit NVIDIA website:

<https://store.nvidia.com/en->

[us/networking/store/product/MMA1L30-CM/NVIDIAMMA1L30COpticalTransceiver100GbEQSFP28LCLCCWDM4/](https://store.nvidia.com/en-us/networking/store/product/MMA1L30-CM/NVIDIAMMA1L30COpticalTransceiver100GbEQSFP28LCLCCWDM4/)

[Buy Now](#)