

Mellanox MMA1L10-CR-I Datasheet



Mellanox MMA1L10-CR-I 100GBASE-LR4 QSFP28 1310nm 10km DOM Duplex LC SMF Optical Transceiver Module (Industrial)

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The Mellanox MMA1L10-CR-I QSFP28 Optical Transceiver Module is designed for use in 100GBASE Ethernet throughput up to 10km over single mode fiber (SMF) using a wavelength of 1310nm via duplex LC connectors. Taking BOX+FPC+PCBA separate design, it has great reliability, airtightness and heat dissipation performance. This transceiver is compliant with IEEE 802.3ba 100GBASE-LR4 and IEEE 802.3bm CAUI-4 standard. Digital diagnostics functions are also available via the I2C interface, as specified by the QSFP28 MSA, to allow access to real-time operating parameters. With these features, this easy to install, hot swappable transceiver is suitable to be used in various applications, such as telecom, service provider applications and also 5G wireless network, suitable for both outdoor and indoor deployments.

Specifications

- Brand: Mellanox
- Part Number: MMA1L10-CR-I
- Form Factor: QSFP28
- Max Data Rate: 103.125Gbps (4x 25.78Gbps)
- Wavelength: 1310nm
- Max Cable Distance: 10km
- Connector: Duplex LC
- Media: SMF

- Transmitter Type: LAN WDM EML
- Receiver Type: PIN
- TX Power: -4.3~4.5dBm
- Receiver Sensitivity: <-10.6dBm
- Powerbudget: 6.3dB
- Receiver Overload: 4.5dBm
- Power Consumption: $\leq 4W$
- Extinction Ratio: >4dB
- DDM/DOM: Supported
- Industrial Temperature Range: -40 to 85°C (-40 to 185°F)
- Packaging Technology: BOX Packaging
- Modulation Format: NRZ
- CDR (Clock and Data Recovery): TX & RX Built-in CDR
- Host FEC: Supported
- Protocols: IEEE 802.3ba 100GBASE-LR4, IEEE 802.3bm, QSFP28 MSA Compliant

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