

# Mellanox MFM1T02A-LR-I Datasheet



Mellanox MFM1T02A-LR-I 10GBASE-LR SFP+ 1310nm 10km Industrial DOM Duplex LC SMF Optical Transceiver Module

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This Mellanox MFM1T02A-LR-I SFP+ transceiver supports up to 10km link lengths over LC duplex SMF fiber. This transceiver is compliant with SFF-8431, SFF-8432 and IEEE 802.3ae standards. Digital diagnostics monitoring is available via a 2-wire serial interface, as specified in SFF-8472. Featuring an operating temperature range of -40°C to 85°C, this industrial fiber optic transceiver can work in harsh industrial environments, such as telecommunication, data processing & management, the application of industrial and factory automation, outdoor applications, rail and intelligent transportation systems (ITSs), marine, oil and gas, mining etc.

## Specifications

- Brand: Mellanox
- Part Number: MFM1T02A-LR-I
- Form Factor: SFP+
- Max Data Rate: 10.3125Gbps
- Wavelength: 1310nm
- Max Cable Distance: 10km
- Connector: Duplex LC
- Media: SMF
- Transmitter Type: DFB
- Receiver Type: PIN
- TX Power: -8.2~0.5dBm

- Receiver Sensitivity: <-12.6dBm
- Powerbudget: 4.4dB
- Receiver Overload: 0.5dBm
- Power Consumption:  $\leq 1W$
- Extinction Ratio: >3.5dB
- DDM/DOM: Supported
- Industrial Temperature Range: -40 to 85°C (-40 to 185°F)
- Protocols: IEEE 802.3ae, SFF-8472, SFF-8431, SFF-8432, SFP+ MSA , CPRI, eCPRI, 10GFC, FC-PI-4

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