

# Mellanox MMA2P00-AS Datasheet



Mellanox MMA2P00-AS transceiver, 25GbE, SFP28, LC-LC, 850nm, SR, up to 150m

MMA2P00-AS

25GbE SR SFP28 MMF Optical Transceiver

Mellanox MMA2P00-AS is a pluggable SFP28 optical transceiver designed for use in 25GbE Ethernet. It incorporates Mellanox integrated circuit technology in order to provide high performance at low power. The transceiver operates over a pair of multi-mode fibers (MMF), using a nominal wavelength of 850nm, and is SFF-8402 compliant.

MMA2P00-AS has a standard SFP28 connector on the electrical side towards the host system supporting IEEE 802.3bm. The optical interface is composed of two optical channels/fibers, one in each direction, intended for a multi-mode optical cable connected via standard LC connectors. Each channel/fiber operates at signaling rates up to 25.78125GBd.

The transceiver offers selectable retiming for both its optical transmitter and receiver for the 25Gb/s rate, and it also supports lower bit rates without. The transmitter has programmable input equalizers and input squelch function, while the receiver has programmable output amplitude and pre-emphasis.

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

## Highlights

- Selectable retiming for both Tx and Rx
- Programmable Rx output emphasis
- Programmable Tx input equalizer
- SFF-8402 compliant SFP28
- 3.3V power supply
- SFP28 power level 1
- 0.7W power dissipation (typ., with retiming)
- BER better than 1E-15
- 0°C-85°C extended operating case temperature range (MMA2P00-ASHT only)
- Class 1 laser safety
- Up to 100m on OM4 and 70m on OM3 multimode fiber at 25Gb/s
- Up to 100m on OM3 at 10Gb/s
- Hot pluggable
- RoHS compliant
- IEEE 802.3 25GBASE-SR compliant
- IEEE 802.3 10GBASE-SR compliant
- SFF-8472 compliant I2C management interface
- 25G to 10G rate selection by turning off CDR

## Specifications

- Configuration: 25GbE SR
- Configuration: SFP28
- Application: 1x 25G-NRZ Serial
- Connector: 2-fiber duplex LC
- Max Reach: 100m

- Wavelength: 850nm multi-mode
- Part Number: MMA2P00-AS

For more specifications of this MMA2P00-AS, please visit below Mellanox website:

[https://www.mellanox.com/related-docs/prod\\_cables/PB\\_MMA2P00-AS\\_MMA2P00-ASHT\\_25GbE\\_SFP28\\_MMF\\_Transceiver.pdf](https://www.mellanox.com/related-docs/prod_cables/PB_MMA2P00-AS_MMA2P00-ASHT_25GbE_SFP28_MMF_Transceiver.pdf)

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