Mellanox MC2210411-SR4 Datasheet

Mellanox MC2210411-SR4 optical module, 40Gb/s, QSFP, MPO, 850nm, up to 100m

MC2210411-SR4

40Gb/s QSFP+ MMF Optical Transceiver

Mellanox MC2210411-SR4 is a 4-channel, pluggable, QSFP+, VCSEL-based (Vertical Cavity Surface Emitting Laser) optical transceiver designed for use in 40Gb/s networks operating at 4x10.3125Gb/s. This transceiver incorporates Mellanox 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.

MC2210411-SR4 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 at 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

- 40Gb/s Ethernet and FDR10
- 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 100m
- Digital diagnostic monitoring (DDM)
- Hot pluggable
- RoHS compliant
- IEEE 802.3 40GBASE-SR4 compliant
- SFF-8636 compliant I2C management interface

Specifications

- Configuration: 40GbE SR4
- Configuration: QSFP+
- Application: 4x 10G-NRZ Parallel
- Connector: 8-fiber, MPO-12
- Max Reach: 100m
- Wavelength: 850nm multi-mode
- Part Number: MC2210411-SR4

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