

# Mellanox MC220731V-020 Datasheet



Mellanox MC220731V-020 active fiber cable, VPI, up to 56Gb/s, QSFP, 20m

MC220731V-020

Mellanox 56Gb/s QSFP+ Active Optical Cable

Mellanox MC220731V is a family of VCSEL-based (Vertical Cavity Surface-Emitting Laser) QSFP+ active optical cable (AOC) designed for use in 40GbE Ethernet and 56Gb/s Virtual Port Interconnect (VPI) systems. This family of AOCs offers high port density and configurability, as well as a longer reach than passive copper cables in data centers. Since the AOC is hot pluggable, it is easy to install and replace.

The MC220731V family has a standard SFF-8685 compliant QSFP+ port on the electrical side towards the host system.

MC220731V AOCs contain four multi-mode fibers (MMF) optical transceivers per end, each operating at data rates of up to 14.0625Gb/s. The transmitters have input equalizers compensating for signal attenuation across the host PCB, and the receivers have programmable output amplitude and pre-emphasis.

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

## Highlights

- Up to 56Gb/s data rate
- 1W maximum power consumption
- SFF-8685 and SFF-8436 compliant
- Operating case temperature of 0-70°C
- 3.3V power supply
- BER better than 1E-15
- Hot pluggable
- Up to 100 meters in length
- Standard multimode fiber
- RoHS compliant
- Plenum rated (OFNP)

For more specifications of this MC220731V-020, please visit below Mellanox website:

[https://www.mellanox.com/related-docs/prod\\_cables/PB\\_MC220731V-xxx\\_56Gbps\\_QSFP+\\_AOC.pdf](https://www.mellanox.com/related-docs/prod_cables/PB_MC220731V-xxx_56Gbps_QSFP+_AOC.pdf)

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