

**DATASHEET 5.0**

# SO-QSFPDD-AOCxxM

**QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS3.0/4.0, 1-30m**

## OVERVIEW

The SO-QSFPDD-AOCxxM is an Active Optical Cable (AOC) solution for short-range multi-lane data communication and interconnect applications. The solution consists of two QSFP-DD transceivers connected via an OM4 Multimode optical cable of different lengths for 400Gbps Ethernet interconnects. The electrical interface of the module is compliant with the 400GAUI-8 interface and compliant with QSFP-DD MSA.

SO-QSFPDD-AOCxxM integrates eight data lanes (25Gbd) in each direction using PAM4 modulation with 400 Gbps aggregate bandwidth.

The SO-QSFPDD-AOCxxM cables have an I2C interface with Integrated Digital Diagnostic Monitoring according to the Common Management Interface Specification (CMIS 3.0). A set of cables supporting CMIS4.0 (or later) have the ordering code SO-QSFPDD-AOCxxM-4.

The SO-QSFPDD-AOCxxM and SO-QSFPDD-AOCxxM-4 are provided in lengths from 1 to 30 meters (3.3 to 98.4 ft).

## PRODUCT FEATURES

- 2x QSFP-DD transceivers with Multimode fiber cable
- 8x 26.5625GBd (PAM4) Electrical Interface (400GAUI-8)
- Digital diagnostics functions via the I2C interface (CMIS 3.0 or CMIS4.0 (or later))
- 1 to 30 meters (3.3 to 98.4ft)
- Fully RoHS compliant for environmental protection
- Low power consumption; <10W
- Operating temperature 0°C to +70°C (32°F to +158°F)
- Storage temperature -40°C to +85°C (-40°F to +185°F)

## APPLICATIONS

- Data Center cabling infrastructure
- Storage Area Network (SAN)
- Network Attached Storage (NAS)
- Hub, switches, routers, servers

## ORDERING INFORMATION

Parameter	Value
SO-QSFPDD-AOC01M	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS3.0 1m
SO-QSFPDD-AOC03M	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS3.0 3m
SO-QSFPDD-AOC05M	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS3.0 5m
SO-QSFPDD-AOC07M	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS3.0 7m
SO-QSFPDD-AOC10M	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS3.0 10m
SO-QSFPDD-AOC15M	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS3.0 15m
SO-QSFPDD-AOC20M	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS3.0 20m
SO-QSFPDD-AOC30M	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS3.0 30m
SO-QSFPDD-AOC01M-4	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS4.0 1m
SO-QSFPDD-AOC03M-4	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS4.0 3m
SO-QSFPDD-AOC05M-4	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS4.0 5m
SO-QSFPDD-AOC07M-4	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS4.0 7m
SO-QSFPDD-AOC10M-4	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS4.0 10m
SO-QSFPDD-AOC15M-4	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS4.0 15m
SO-QSFPDD-AOC20M-4	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS4.0 20m
SO-QSFPDD-AOC30M-4	QSFP-DD 400G Ethernet-SR8, Active Optical Cable AOC MM CMIS4.0 30m

## MECHANICAL DRAWING

