

**DATASHEET 5.2****SO-QSFP28-AOCxM****QSFP28, 100GBase, Active Optical Cable (AOC), 1m to 70m****OVERVIEW**

The SO-QSFP28-AOCxM is an Active Optical Cable (AOC) solution for short-range multi-lane data communication and interconnect applications. The solution consists of QSP28 transceivers connected via a ribbon optical cable of desired length for 100Gbps Ethernet interconnects. SO-QSFP28-AOCxM integrates four data lanes (25Gbps) in each direction with 100 Gbps aggregate bandwidth.

Forward Error Correction (FEC) is required in the host equipment to ensure reliable system operation. The FEC type shall be as defined in IEEE802.3bj, i.e. Reed Solomon RS(528,514). Without FEC the bit error ratio (BER) will be less than  $5 \times 10^{-5}$ .

With FEC the BER will be better than  $1 \times 10^{-12}$ .

The SO-QSFP28-AOCxM is provided in lengths from 1 to 70 meters (3.3 to 230 ft).

## PRODUCT FEATURES

- 2x QSFP28 transceivers with Multimode ribbon fiber cable
- SFF-8665 compliant QSFP28 connector
- Digital diagnostics functions via the I2C interface
- 1 to 70 meters (3.3 to 230 ft)
- Fully RoHS compliant for environmental protection
- Low power consumption; <2.5W
- Operating temperature 0oC to +70oC (32°F to +158°F)
- Storage temperature -40oC to +85oC (-40°F to +185°F)

## APPLICATIONS

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

## ORDERING INFORMATION

Ordering code	Description
SO-QSFP28-AOC1M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 1m
SO-QSFP28-AOC2M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 2m
SO-QSFP28-AOC3M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 3m
SO-QSFP28-AOC4M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 4m
SO-QSFP28-AOC5M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 5m
SO-QSFP28-AOC6M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 6m
SO-QSFP28-AOC7M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 7m
SO-QSFP28-AOC8M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 8m
SO-QSFP28-AOC9M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 9m
SO-QSFP28-AOC10M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 10m
SO-QSFP28-AOC12M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 12m
SO-QSFP28-AOC15M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 15m
SO-QSFP28-AOC20M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 20m
SO-QSFP28-AOC30M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 30m
SO-QSFP28-AOC50M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 50m
SO-QSFP28-AOC70M	QSFP28 to QSFP28 Active Optical Cable (AOC), 100G Ethernet, 70m

# MECHANICAL DRAWING

