

Key Highlights:

- Type: 56G Active Optical Cable
- Compatibility: Multi-Vendor MSA Compatible
- Media Type: Multi-Mode Fiber
- Tx/Rx: 850nm
- Max. Distance: 100 m
- Data Rate: 48-56.1 Gbps
- Temperature: Standard 0°-70°C
- Low Power Consumption: 1.5W (Typical)



56G Active Optical Cable: 56G-AOC-QSFP

Product Description:

56G-AOC-QSFP is Multi-Vendor MSA Compatible 56G Active Optical Cable, operating over multi-mode optical cable. 56G Active optical cable is direct-attach assembly with MSA (Multi-Source Agreement) compatible QSFP+ connectors. 56G Active optical cable uses 4 x 850nm VCSEL transmitters and 4 x PIN photo-detector receivers operating over 4 parallel data lanes of OM3 MMF cable with distance up to 100m. 56G Active optical cable support 48-56.1 Gbps multi-rate communication and such applications as 4 x InfiniBand FDR (54.54Gbps) | 4 x 16G Fiber Channel (56.1Gbps) | 4x SAS 3.0 (48Gbps). Most popular applications of 56G Active Optical Cables are cost effective close range interconnections within equipment room of telecom operators or data centers, interconnecting LAN or SAN applications with speeds up to 56G.

56G Active Optical Cable is CE/RoHS certified and it is Compliant with product safety standards. 56G-AOC-QSFP is fully compliant to QSFP+ Multi Source Agreement SFF-8436. Consequently, it means that module is compatible with 80% of networking equipment, where is not implemented a special algorithm for protection against third party modules. However – we can provide 56G Active Optical Cable with custom-encoded firmware in order to make it work almost in any equipment and we can support encoding of each end to support different vendor equipment, allowing using Active Optical Cable as cross-platform interconnection medium. We will be glad to hear Your requirements and our sales team will check all relevant details with You during ordering procedure. Our focus is providing top quality service, we are performing serious quality checks before delivery of our products.



Product Specification:

Parameter	Value
Media Type:	Multi-Mode Fiber (MMF)
DAC Cable Type:	OM3
TX Wavelength:	850nm
RX Wavelength:	850nm
Transmitter Type:	VCSEL Laser
Receiver Type:	PIN Photodiode
Maximum Distance:	1m 2m 3m 5m 7m 10m 20m 30m 50m 70m 100m
Supported Data Rate:	48-56.1 Gbps
Supported Applications:	4 x InfiniBand FDR (54.54Gbps) 4 x 16G Fiber Channel (56.1Gbps) 4x SAS 3.0 (48Gbps)
DDM/DOM:	Supported
Connectors:	QSFP
Temperature Range:	Standard 0°-70°C
Power:	+3.3V single power supply
Power Consumption:	1.5W (Typical)
MTBF value at 35 °C:	1'000'000 Hours.
Compliance:	QSFP+ MSA SFF-8436 IEEE P802.3ba ROHS CE

Supported Versions:

PN	Description
56G-AOC-QSFP-1	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 1m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
56G-AOC-QSFP-2	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 2m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
56G-AOC-QSFP-3	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 3m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
56G-AOC-QSFP-5	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 5m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)



PN	Description
56G-AOC-QSFP-7	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 7m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
56G-AOC-QSFP-10	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 10m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
56G-AOC-QSFP-20	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 20m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
56G-AOC-QSFP-30	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 30m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
56G-AOC-QSFP-50	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 50m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
56G-AOC-QSFP-70	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 70m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
56G-AOC-QSFP-100	Multi-Vendor Compatible 56G QSFP to QSFP Active Optical Cable (48-56.1 Gbps, Max. 100m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)

Compatibility:

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more than 50 vendor brands in data and telecom communications industry:

MS - General MSA
AD - ADVA
AL - Alcatel-Lucent
AR - Arista
AV - Avaya
BR - Brocade
CN - Ciena
CI - Cisco
DL - Dell & Force10
DK - D-Link
EM - EMC2
ET - Enterasys

ER - Ericsson
EX - Extreme Networks
F5 - F5 Networks
FO - Fortinet
FU - Fujitsu
H3 - H3C
HI - Hirschmann
HP* - HP Networking
HS* - HP Storage
HU - Huawei
IB - IBM
IF - Infinera

IN - Intel
JU - Juniper Networks
LI - Linksys
ML - Mellanox
ME - Meraki (Cisco)
MT - MikroTik
MO - Moxa
MR - MRV
NG - Netgear
NS - NSN
PA - Palo Alto Network
QL - Qlogic

RD - RAD
RU - Ruijie Networks
SM - Supermicro
SY - Synology
TC - Telco Systems
TP - TP-LINK
TN - Trendnet
WG - WatchGuard
ZT - ZTE
XX - Other

Warranty:

EDGE Optic's provides a limited **warranty for sixty (60) months** from Purchaser's receipt of the Equipment represented in this data sheet against defective design or workmanship.

