



Key Highlights:

- Type: 400G Active Optical Cable
- Compatibility: Multi-Vendor MSA Compatible
- Media Type: Multi-Mode Fiber
- Tx/Rx: 850nm
- Max. Distance: 100 m
- Data Rate: 212.5-425 Gbps
- Temperature: Standard 0°-70°C
- Low Power Consumption: ≤10W per end

400G Active Optical Cable: 400G-AOC-QSFP-DD

Product Description:

400G-AOC-QSFP-DD is Multi-Vendor MSA Compatible 400G AOC (Active Optical Cable), operating over multi-mode optical cable. 400G AOC is direct-attach assembly with MSA (Multi-Source Agreement) compatible QSFP-DD connectors. 400G AOC uses 8 x 850nm VCSEL transmitters and 8 x PIN photo-detector receivers operating over 8 parallel data lanes of OM3/OM4 MMF cable with distance up to 100m. 400G AOC support 212.5-425 Gbps multi-rate communication and such applications as 400G Ethernet (412.5Gbps), 200G Ethernet (206.25Gbps), InfiniBand EDR (100Gbps), InfiniBand HDR (200Gbps). Most popular applications of 400G AOC are cost effective close range interconnections within equipment room of telecom operators or data centers, interconnecting LAN applications with speeds up to 400G.

400G Active Optical Cable is CE/RoHS certified and it is Compliant with product safety standards. 400G-AOC-QSFP-DD is fully compliant to QSFP-DD Multi Source Agreement (MSA) and IEEE 802.3bs and IEEE 802.3by specification. Consequently, compliance to above standards guarantees that module is compatible and works with majority of networking equipment, where is not implemented special algorithm for protection against third party modules. However – our technical team has accumulated deep expertise in custom-encoded firmware's for 400G AOC in order to make it work in almost any brand equipment and we can support encoding of each end to support different vendor equipment, allowing using 400G AOC as cross-platform interconnection medium. We will be glad to know your requirements.



Product Specification:

Parameter	Value
Media Type:	Multi-Mode Fiber (MMF)
DAC Cable Type:	OM3/OM4
TX Wavelength:	850nm
RX Wavelength:	850nm
Transmitter Type:	VCSEL Laser
Receiver Type:	PIN Photodiode
Maximum Distance:	1m, 2m, 3m, 5m, 7m, 10m, 15m, 20m, 30m, 40m, 50m, 70m, 100m
Supported Data Rate:	212.5-425 Gbps
Supported Applications:	400G Ethernet (412.5Gbps), 200G Ethernet (206.25Gbps), 4xInfiniBand EDR (100Gbps) , 2xInfiniBand HDR (200Gbps)
DDM/DOM:	Supported
Connectors:	QSFP-DD
Temperature Range:	Standard 0°-70°C
Power:	+3.3V single power supply
Power Consumption:	≤10W per end
MTBF value at 35 °C:	1'000'000 Hours.
Compliance:	QSFP-DD MSA, IEEE 802.3bs, IEEE 802.3by, InfiniBand EDR, InfiniBand HDR, ROHS, CE

Supported Versions:

PN	Description
400G-AOC-QSFP-DD-1	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 1m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-2	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 2m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-3	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 3m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-5	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 5m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-7	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 7m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-10	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 10m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-15	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 15m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)



PN	Description
400G-AOC-QSFP-DD-20	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 20m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-30	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 30m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-40	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 40m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-50	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 50m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-70	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 70m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
400G-AOC-QSFP-DD-100	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Active Optical Cable (212.5-425 Gbps, Max. 100m, MMF, OM4, 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 100 vendor brands in data and telecom communications industry:

MS - General MSA
AD - ADVA
AE - Advantech
AL - Alcatel (Nokia)
AT - Allied Telesis
AR - Arista
AS - Arris
AV - Avaya
BC - Barracuda
BR - Broadcom
QL - Cavium (Qlogic)
CR - Ceragon
CP - Checkpoint
CH - Chelsio
CN - Ciena
CI - Cisco
LI - Cisco (Linksys)
CE - Comnet
CO - Coriant
DH - Dahua
DC - DCN
DL - Dell & Force10
DK - D-Link

DZ - DZS(Dasan-Zhone)
EI - ECI
EC - EdgeCore
EW - EdgeWare
EL - Eltex
EM - EMC2
EN - Enterasys
ER - Ericsson
EF - EXFO
EX - Extreme Networks
F5 - F5 Networks
FI - Finisar
FO - Fortinet
FU - Fujitsu
H3 - H3C
HI - Hirschmann
HU - Huawei
IB - IBM
IF - Infinera
IN - Intel
IX - Ixia
JU - Juniper Networks
KM - KeyMile

KY - KyLand
LN - Lenovo
ML - Mellanox
ME - Meraki (Cisco)
MT - MikroTik
MO - Moxa
MR - MRV
NC - NEC
NG - Netgear
NK - Nokia
NT - Nortel
NS - NSN
OR - Oracle
PA - Palo Alto Network
PL - Planet
QC - QCT(Quanta)
QN - QNAP
RD - RAD
RW - RadWare
RC - Raisecom
RK - Ruckus
RU - Ruijie Networks
SG - Samsung

SV - Sandvine
SC - Silicom
SF - SolarFlare
SW - Sonicwall
SM - Supermicro
SY - Synology
TC - Telco Systems
TP - TP-LINK
TN - Trendnet
UN - Ubiquiti Networks
VX - VeEx
WG - WatchGuard
WS - Waystream
WT - Westermo
ZT - ZTE
ZX - Zyxel
HP - HP
AG - Avago
OC - Oclaro
EU - Emulex
TM - Transmode
AU - HP Aruba
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. Warranty does not cover damage caused by improper deployment, misuse and accidents.

