



## Key Highlights:

- Type: 50G Active Optical Cable
- Compatibility: Multi-Vendor MSA Compatible
- Media Type: Multi-Mode Fiber
- Tx/Rx: 850nm
- Max. Distance: 100 m
- Data Rate: 50 Gbps
- Temperature: Standard 0°-70°C
- Low Power Consumption: 1W (Typical)

## 50G Active Optical Cable: 50G-AOC-SFP56

### Product Description:

50G-AOC-SFP56-1 is Multi-Vendor MSA Compatible 50G Active Optical Cable, operating over multi-mode optical cable. 50G Active optical cable is direct-attached assembly with MSA (Multi-Source Agreement) compatible SFP56 connectors. 50G Active optical cable uses 850nm VCSEL transmitter and PIN photo-detector receiver operating over OM3 MMF cable with distance up to 100m. 50G Active optical cable supports 50G Gbps multi-rate communication and such applications as 10G, 25G, 50G Ethernet (53.125Gbps). Most popular applications of 50G 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 50G.

50G Active Optical Cable is CE/RoHS certified and it is Compliant with product safety standards. 50G-AOC-SFP56 is fully compliant to SFP56 Multi Source Agreement SFF-8071. Consequently, it means that module is compatible with 80% of networking equipment, whereas not implemented a special algorithm for protection against third party modules. However – we can provide 50G 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   15m   20m   30m   40m   50m   70m   100m
Supported Data Rate:	10.31 Gbps, 25.78 Gbps, 53.125 Gbps
Supported Applications:	10G, 25G, 50G Ethernet
DDM/DOM:	Supported
Connectors:	SFP56
Temperature Range:	Standard 0°-70°C
Power:	+3.3V single power supply
Power Consumption:	1W (Typical)
MTBF value at 35 °C:	1'000'000 Hours.
Compliance:	CE, RoHS, IEEE 802.3cd 50GBASE-SR

## Supported Versions:

PN	Description
50G-AOC-SFP56-1	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 1m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-2	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 2m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-3	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 3m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-5	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 5m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)



PN	Description
50G-AOC-SFP56-7	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 7m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-10	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 10m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-15	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 15m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-20	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 20m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-30	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 30m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-40	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 40m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-50	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 50m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-70	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 Gbps, Max. 70m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
50G-AOC-SFP56-100	Multi-Vendor Compatible 50G SFP56 to SFP56 Active Optical Cable (53.125 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.

