

## Key Highlights:

- Type: 10G Active Optical Cable
- Compatibility: Multi-Vendor MSA Compatible
- Media Type: Multi-Mode Fiber
- Tx/Rx: 850nm
- Max. Distance: 100 m
- Data Rate: 1.0625-10.52 Gbps
- Temperature: Standard 0°-70°C
- Low Power Consumption: 1W (Typical)



## 10G Active Optical Cable: 10G-ADAC-SFP

### Product Description:

10G-AOC-SFP is Multi-Vendor MSA Compatible 10G Active Optical Cable, operating over multi-mode optical cable. 10G Active optical cable is direct-attach assembly with MSA (Multi-Source Agreement) compatible SFP+ connectors. 10G Active optical cable uses 850nm VCSEL transmitter and PIN photo-detector receiver operating over OM3 MMF cable with distance up to 300m. 10G Active optical cable support 1.0625-10.52 Gbps multi-rate communication and such applications as 10G Ethernet (10.31Gbps) | Gigabit Ethernet (1.25 Gbps) | 10G Fiber Channel (10.52 Gbps) | 8G Fiber Channel (8.5 Gbps) | 4G Fiber Channel (4.25 Gbps) | 2G Fiber Channel (2.125 Gbps) | 1G Fiber Channel (1.0625 Gbps) | CPRI option 2 (1228.8 Mbps) | CPRI option 3 (2.458 Gbps) | CPRI option 5 (4.915 Gbps) | CPRI option 6 (6.144 Gbps) | CPRI option 7 (9.830 Gbps) | CPRI option 8 (10.138 Gbps) | OBSAI RP3 x 2 (1.536 Gbps) | OBSAI RP3 x 4 (3.072 Gbps) | OBSAI RP3 x 8 (6.144 Gbps). Most popular applications of 10G 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 10G.

10G Active Optical Cable is CE/RoHS certified and it is Compliant with product safety standards. 10G-AOC-SFP is fully compliant to SFP+ Multi Source Agreement SFF-8432. 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 10G 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   25m   30m   50m   100m
Supported Data Rate:	1.0625-10.52 Gbps
Supported Applications:	10G Ethernet (10.31Gbps)   Gigabit Ethernet (1.25 Gbps)   10G Fiber Channel (10.52 Gbps)   8G Fiber Channel (8.5 Gbps)   4G Fiber Channel (4.25 Gbps)   2G Fiber Channel (2.125 Gbps)   1G Fiber Channel (1.0625 Gbps)   CPRI option 2 (1228.8 Mbps)   CPRI option 3 (2.458 Gbps)   CPRI option 5 (4.915 Gbps)   CPRI option 6 (6.144 Gbps)   CPRI option 7 (9.830 Gbps)   CPRI option 8 (10.138 Gbps)   OBSAI RP3 x 2 (1.536 Gbps)   OBSAI RP3 x 4 (3.072 Gbps)   OBSAI RP3 x 8 (6.144 Gbps)
DDM/DOM:	Supported
Connectors:	SFP+
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:	SFP+ MSA   SFF-8432   ROHS   CE

## Supported Versions:

PN	Description
10G-AOC-SFP-1	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 1m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-2	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 2m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-3	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 3m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-5	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 5m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)



PN	Description
10G-AOC-SFP-7	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 7m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-10	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 10m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-15	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 15m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-20	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 20m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-25	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 25m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-30	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 30m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-50	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 Gbps, Max. 50m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
10G-AOC-SFP-100	Multi-Vendor Compatible 10G SFP+ to SFP+ Twinax Active Optical Cable (1.0625-10.52 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.

