



## Key Highlights:

- Type: 40G Active Optical Breakout Cable
- Compatibility: Multi-Vendor MSA Compatible
- Media Type: Multi-Mode Fiber
- Tx/Rx: 850nm
- Max. Distance: 100 m
- Data Rate: 2.125-41.2 Gbps
- Temperature: Standard 0°-70°C
- Low Power Consumption: 1.5W (Typical)

## 40G Active Optical Breakout Cable: 40G-AOC-QSFP-SFP

## Product Description:

40G-AOC-QSFP-SFP is Multi-Vendor MSA Compatible 40G Active Optical Breakout Cable, operating over multi-mode optical cable. 40G Active Optical breakout cable is equipped with MSA standard compatible QSFP+ transceiver assembly at one end of cable and SFP+ assembly at each end of four breakouts. 40G Active optical breakout 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. 40G Active optical breakout cable support 2.125-41.2 Gbps multi-rate communication and such applications as 40G Ethernet (41.25Gbps) | 10G Ethernet (10.31Gbps) | 10G Fiber Channel (10.52 Gbps) | 8G Fiber Channel (8.5 Gbps) | 4G Fiber Channel (4.25 Gbps) | 2G Fiber Channel (2.125 Gbps) | 4 x InfiniBand QDR(32Gbps) | 4x InfiniBand DDR (16Gbps) | 4x InfiniBand SDR (8Gbps). Most popular applications of 40G Active Optical Breakout 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 40G.

40G Active Optical Breakout Cable is CE/RoHS certified and it is Compliant with product safety standards. 40G-AOC-QSFP-SFP is fully compliant to QSFP+ Multi Source Agreement SFF-8436 and 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 40G Active Optical Breakout 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:	2.125-41.2 Gbps
Supported Applications:	40G Ethernet (41.25Gbps)   10G Ethernet (10.31Gbps)   10G Fiber Channel (10.52 Gbps)   8G Fiber Channel (8.5 Gbps)   4G Fiber Channel (4.25 Gbps)   2G Fiber Channel (2.125 Gbps)   4 x InfiniBand QDR(32Gbps)   4x InfiniBand DDR (16Gbps)   4x InfiniBand SDR (8Gbps)
DDM/DOM:	Supported
Connectors:	QSFP   SFP+
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   QDR InfiniBand   ROHS   CE   SFF-8432   SFP+ MSA

## Supported Versions:

PN	Description
40G-AOC-QSFP-SFP-1	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 1m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-2	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 2m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-3	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 3m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-5	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 5m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)



PN	Description
40G-AOC-QSFP-SFP-7	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 7m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-10	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 10m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-15	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 15m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-20	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 20m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-30	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 30m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-40	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 40m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-50	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 50m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-70	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 Gbps, Max. 70m, MMF, OM3, DDM/DOM supported, Temp. 0-70C)
40G-AOC-QSFP-SFP-100	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Active Optical Breakout Cable (2.125-41.2 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.

