



## Key Highlights:

- Type: 40G Active Breakout Cable
- Compatibility: Multi-Vendor MSA Compatible
- Media Type: Copper Cable
- Max. Distance: 10 m
- Data Rate: 2.125-41.2 Gbps
- Temperature: Standard 0°-70°C
- Low Power Consumption: 1.5W (Typical)

## 40G Passive Breakout Cable: 40G-ADAC-QSFP-SFP

## Product Description:

40G-ADAC-QSFP-SFP is Multi-Vendor MSA Compatible 40G Active Breakout Cable, operating over copper cable. 40G Active 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. Main difference distinguishing active Breakout cable from similar passive breakout cable is that this assembly is equipped with chip-sets performing regeneration and boosting electrical signal translated over copper lanes, thus allowing reaching greater distances via copper media and not losing transmission quality. 40G Active Breakout cable supports 4 separate fully duplex copper data lanes, which 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 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 Breakout Cable is CE/RoHS certified and it is Compliant with product safety standards. 40G-ADAC-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 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 40G Active Breakout 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:	Active Breakout Cable
DAC Copper Type:	1-7m AWG30 / 10m AWG28
Maximum Distance:	1m   3m   4m   5m   10m
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   SFP+ MSA   IEEE 802.3ba   SFF-8 436   SFF-8432   QDR InfiniBand   ROHS   CE

## Supported Versions:

PN	Description
40G-ADAC-QSFP-SFP-1	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Twinax Active Copper Breakout Cable (2.125-41.2 Gbps, Max. 1m, AWG 30, Temp. 0-70C)
40G-ADAC-QSFP-SFP-3	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Twinax Active Copper Breakout Cable (2.125-41.2 Gbps, Max. 3m, AWG 30, Temp. 0-70C)
40G-ADAC-QSFP-SFP-5	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Twinax Active Copper Breakout Cable (2.125-41.2 Gbps, Max. 5m, AWG 30, Temp. 0-70C)
40G-ADAC-QSFP-SFP-7	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Twinax Active Copper Breakout Cable (2.125-41.2 Gbps, Max. 7m, AWG 30, Temp. 0-70C)
40G-ADAC-QSFP-SFP-10	Multi-Vendor Compatible 40G QSFP to 4xSFP+ Twinax Active Copper Breakout Cable (2.125-41.2 Gbps, Max. 10m, AWG 28, 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.

