

Key Highlights:

- Type: 40G Active Twinax Cable
- Compatibility: Multi-Vendor MSA Compatible
- Media Type: Active Copper Cable
- Max. Distance: 10 m
- Data Rate: 2.125-41.2 Gbps
- Temperature: Standard 0°-70°C
- Low Power Consumption: 0.8W (Typical)



40G Active Twinax Cable: 40G-ADAC-QSFP

Product Description:

40G-ADAC-QSFP is Multi-Vendor MSA Compatible 40G Active Twinax Cable, operating over copper cable. 40G Active twinax cable is equipped with MSA standard compatible QSFP+ transceiver assembly at each end of cable. Main difference distinguishing active Twinax cable from similar passive twinax 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 Twinax 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 Twinax 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 Twinax Cable is CE/RoHS certified and it is Compliant with product safety standards. 40G-ADAC-QSFP is fully compliant to QSFP+ Multi Source Agreement SFF-8436. 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 Twinax 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 Twinax 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 Twinax Cable
DAC Copper Type:	1m-5m AWG30 / 5m-10m AWG26
Maximum Distance:	1m 3m 5m 7m 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+
Temperature Range:	Standard 0°-70°C
Power:	+3.3V single power supply
Power Consumption:	0.8W (Typical)
MTBF value at 35 °C:	1'000'000 Hours.
Compliance:	QSFP+ MSA IEEE 802.3ba SFF-8436 QDR InfiniBand ROHS CE

Supported Versions:

PN	Description
40G-ADAC-QSFP-1	Multi-Vendor Compatible 40G QSFP to QSFP Twinax Active Copper Cable (2.125-41.2 Gbps, Max. 0.5m, AWG 30, Temp. 0-70C)
40G-ADAC-QSFP-3	Multi-Vendor Compatible 40G QSFP to QSFP Twinax Active Copper Cable (2.125-41.2 Gbps, Max. 1m, AWG 30, Temp. 0-70C)
40G-ADAC-QSFP-5	Multi-Vendor Compatible 40G QSFP to QSFP Twinax Active Copper Cable (2.125-41.2 Gbps, Max. 1.5m, AWG 30, Temp. 0-70C)
40G-ADAC-QSFP-7	Multi-Vendor Compatible 40G QSFP to QSFP Twinax Active Copper Cable (2.125-41.2 Gbps, Max. 2m, AWG 26, Temp. 0-70C)
40G-ADAC-QSFP-10	Multi-Vendor Compatible 40G QSFP to QSFP Twinax Active Copper Cable (2.125-41.2 Gbps, Max. 2.5m, AWG 26, 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.

