



Key Highlights:

- Type: 400G Passive Twinax Cable
- Compatibility: Multi-Vendor MSA Compatible
- Media Type: Passive Copper Cable
- Max. Distance: 3m
- Data Rate: 212.5-425 Gbps
- Temperature: Standard 0°-70°C
- Low Power Consumption: $\leq 1.5W$

400G Passive DAC Cable: 400G-PDAC-QSFP-DD

Product Description:

400G-PDAC-QSFP-DD is Multi-Vendor MSA Compatible 400G DAC (Direct Attach Cable), operating over passive copper cable. 400G DAC is equipped with MSA standard compatible QSFP-DD (quad small form-factor pluggable double density) transceiver assembly at each end of cable. As passive 400G DAC do not support any electrical transmission signal boosting or regeneration, length of 400G DAC is limited up to 3 meters, which is enough to support 400G connections within same or neighboring equipment racks. 400G DAC supports 8 separate fully duplex copper data lanes, capable of 28 Gbps NRZ or 56 Gbps PAM4 with aggregated throughput 212.5-425 Gbps and such applications as 400G Ethernet (412.5Gbps), 200G Ethernet (206.25Gbps), InfiniBand EDR (100Gbps), InfiniBand HDR (200Gbps). Most popular applications of 400G DAC are cost effective close range interconnections within equipment room of telecom operators or data centers, interconnecting LAN applications with speeds up to 400G.

400G DAC is CE/RoHS certified and it is Compliant with product safety standards. 400G-PDAC-QSFP-DD is fully compliant to QSFP-DD Multi Source Agreement (MSA) and IEEE 802.3bs and IEEE 802.3by specification. Consequently, compliance to above standards guarantees that module is compatible and works with majority of networking equipment, where is not implemented special algorithm for protection against third party modules. However – our technical team has accumulated deep expertise in custom-encoded firmware's for 400G DAC in order to make it work in almost any brand equipment and we can support encoding of each end to support different vendor equipment, allowing using 400G DAC as cross-platform interconnection medium. We will be glad to know your requirements.



Product Specification:

Parameter	Value
Media Type:	Passive Twinax Cable
DAC Copper Type:	0.5-1.5m AWG30 / 2-2.5m AWG28 / 3m AWG27
Maximum Distance:	0.5m, 1m, 1.5m, 2m, 2.5m, 3m
Supported Data Rate:	212.5-425 Gbps
Supported Applications:	400G Ethernet (412.5Gbps), 200G Ethernet (206.25Gbps), 4xInfiniBand EDR (100Gbps) , 2xInfiniBand HDR (200Gbps)
DDM/DOM:	Supported
Connectors:	QSFP-DD
Temperature Range:	Standard 0°-70°C
Power:	+3.3V single power supply
Power Consumption:	≤1.5W
MTBF value at 35 °C:	1'000'000 Hours.
Compliance:	QSFP-DD MSA, IEEE 802.3bs, IEEE 802.3by, InfiniBand EDR, InfiniBand HDR, ROHS, CE

Supported Versions:

PN	Description
400G-PDAC-QSFP-DD-0.5	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Twinax Passive Copper Cable (212.5-425 Gbps, Max. 0.5m, AWG 30, Temp. 0-70C)
400G-PDAC-QSFP-DD-1	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Twinax Passive Copper Cable (212.5-425 Gbps, Max. 1m, AWG 30, Temp. 0-70C)
400G-PDAC-QSFP-DD-1.5	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Twinax Passive Copper Cable (212.5-425 Gbps, Max. 1.5m, AWG 30, Temp. 0-70C)
400G-PDAC-QSFP-DD-2	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Twinax Passive Copper Cable (212.5-425 Gbps, Max. 2m, AWG 28, Temp. 0-70C)
400G-PDAC-QSFP-DD-2.5	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Twinax Passive Copper Cable (212.5-425 Gbps, Max. 2.5m, AWG 28, Temp. 0-70C)
400G-PDAC-QSFP-DD-3	Multi-Vendor Compatible 400G QSFP-DD to QSFP-DD Twinax Passive Copper Cable (212.5-425 Gbps, Max. 3m, AWG 27, Temp. 0-70C)



Compatibility:

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more than 100 vendor brands in data and telecom communications industry:

MS - General MSA

AD - ADVA

AE - Advantech

AL - Alcatel (Nokia)

AT - Allied Telesis

AR - Arista

AS - Arris

AV - Avaya

BC - Barracuda

BR - Broadcom

QL - Cavium (Qlogic)

CR - Ceragon

CP - Checkpoint

CH - Chelsio

CN - Ciena

CI - Cisco

LI - Cisco (Linksys)

CE - Comnet

CO - Coriant

DH - Dahua

DC - DCN

DL - Dell & Force10

DK - D-Link

DZ - DZS(Dasan-Zhone)

EI - ECI

EC - EdgeCore

EW - EdgeWare

EL - Eltex

EM - EMC2

EN - Enterasys

ER - Ericsson

EF - EXFO

EX - Extreme Networks

F5 - F5 Networks

FI - Finisar

FO - Fortinet

FU - Fujitsu

H3 - H3C

HI - Hirschmann

HU - Huawei

IB - IBM

IF - Infinera

IN - Intel

IX - Ixia

JU - Juniper Networks

KM - KeyMile

KY - KyLand

LN - Lenovo

ML - Mellanox

ME - Meraki (Cisco)

MT - MikroTik

MO - Moxa

MR - MRV

NC - NEC

NG - Netgear

NK - Nokia

NT - Nortel

NS - NSN

OR - Oracle

PA - Palo Alto Network

PL - Planet

QC - QCT(Quanta)

QN - QNAP

RD - RAD

RW - RadWare

RC - Raisecom

RK - Ruckus

RU - Ruijie Networks

SG - Samsung

SV - Sandvine

SC - Silicom

SF - SolarFlare

SW - Sonicwall

SM - Supermicro

SY - Synology

TC - Telco Systems

TP - TP-LINK

TN - Trendnet

UN - Ubiquiti Networks

VX - VeEx

WG - WatchGuard

WS - Waystream

WT - Westermo

ZT - ZTE

ZX - Zyxel

HP - HP

AG - Avago

OC - Oclaro

EU - Emulex

TM - Transmode

AU - HP Aruba

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. Warranty does not cover damage caused by improper deployment, misuse and accidents.

