



## Key Highlights:

- Type: 100G Passive Breakout Cable
- Compatibility: Multi-Vendor MSA Compatible
- Media Type: Copper Cable
- Max. Distance: 5 m
- Data Rate: 96.97-112.2 Gbps
- Temperature: Standard 0°-70°C
- Low Power Consumption: 1.5W (Typical)

## 100G Passive Breakout Cable: 100G-PDAC-QSFP-SFP

### Product Description:

100G-PDAC-QSFP-SFP is Multi-Vendor MSA Compatible 100G Passive Breakout Cable, operating over copper cable. 100G Passive breakout cable is equipped with MSA standard compatible QSFP28 transceiver assembly at one end of cable and SFP28 assembly at each end of four breakouts. As passive cables do not support any electrical transmission signal boosting or regeneration, length of 100G Passive breakout cable is limited up to 5 meters, which is enough to support 100G connections within same or neighboring equipment racks. 100G Passive Breakout cable supports 4 separate fully duplex copper data lanes, which support 96.97-112.2 Gbps multi-rate communication and such applications as 100G Ethernet (100.125Gbps) | OTU4 (112Gbps) | 4 x InfiniBand EDR(96.97Gbps) | 4x 32G Fiber Channel (112.2Gbps). Most popular applications of 100G Passive 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 100G.

100G Passive Breakout Cable is CE/RoHS certified and it is Compliant with product safety standards. 100G-PDAC-QSFP-SFP is fully compliant to QSFP28 Multi Source Agreement SFF-8665 and SFP28 Multi Source Agreement SFF-8402. 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 100G Passive 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 100G Passive 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:	Passive Breakout Cable
DAC Copper Type:	1m AWG30 / 2-3m AWG28 / 5m AWG26
Maximum Distance:	1m   2m   3m   5m
Supported Data Rate:	96.97-112.2 Gbps
Supported Applications:	100G Ethernet (100.125Gbps)   OTU4 (112Gbps)   4 x InfiniBand EDR(96.97Gbps)   4x 32G Fiber Channel (112.2Gbps)
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:	SFP28 MSA   QSFP28 MSA   SFF-8402   SFF-8432   SFF-8665   InfiniBand EDR   ROHS   CE

## Supported Versions:

PN	Description
100G-PDAC-QSFP-SFP-1	Multi-Vendor Compatible 100G QSFP28 to 4xSFP28 Twinax Passive Copper Break-out Cable (96.97-112.2 Gbps, Max. 1m, AWG 30, Temp. 0-70C)
100G-PDAC-QSFP-SFP-2	Multi-Vendor Compatible 100G QSFP28 to 4xSFP28 Twinax Passive Copper Break-out Cable (96.97-112.2 Gbps, Max. 2m, AWG 28, Temp. 0-70C)
100G-PDAC-QSFP-SFP-3	Multi-Vendor Compatible 100G QSFP28 to 4xSFP28 Twinax Passive Copper Break-out Cable (96.97-112.2 Gbps, Max. 3m, AWG 28, Temp. 0-70C)
100G-PDAC-QSFP-SFP-5	Multi-Vendor Compatible 100G QSFP28 to 4xSFP28 Twinax Passive Copper Break-out Cable (96.97-112.2 Gbps, Max. 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.

