

edge Product Data Sheet

Key Highlights:

• Type: QSFP+

• Compatibility: Multi-Vendor MSA Compatible

• Tx/Rx Wavelength: 1310 nm / 1310 nm

• Media Type: Single Mode Fiber

Optical Budget: 7 dBMax. Distance: 10 km

• Data Rate: 39.81-44.8 Gbps

• Temperature: Standard 0°-70°C



Optical Transceiver: 40G-QSFP-11

Product Description:

40G-QSFP-11 is Multi-Vendor MSA Compatible QSFP (Quad Small Form-factor Pluggable) Transceiver, operating over pair of singlemode optical fiber providing four independent optical communication lanes. Module has minimum guaranteed optical budget of 7 dB, which in most cases is enough to reach 10 km distance using single-mode cable. However, distance is just indicative parameter calculated for comfort of identification. Eventually we calculate distance taking in account minimal optical budget and average attenuation of optical cabling in industry. 40G-QSFP-11 uses 4 x DFB transmitting lasers and 4 x PIN receivers, operating each lane with speeds of 11.2 Gbps, giving an aggregated maximum bandwidth of 44.8 Gbps. Module support DDM/DOM optical diagnostics, which provide diagnostic information about the present operating conditions. 40G-QSFP-11 operates in Standard 0°-70°C temperature range and has MPO 12 connector. 40G-QSFP-11 support 39.81 - 44.8 Gbps data rate and such applications as 40G Ethernet (41.25 Gbps), STM256 (39.81 Gbps), OTU3 (43.108 Gbps) and OTU3e2 (44.58 Gbps). 40G-QSFP-11 optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular applications are Internet Service Provider (ISP) Fiber To The Home aggregation and backbone, Mobile operator core and back-haul 40G applications, Data Center networking site interconnections and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. 40G-QSFP-11 Transceiver is fully compliant to QSFP+ Multi Source Agreement. 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 QSFP+ transceiver with custom-encoded firmware in order to make it work almost in any equipment. Therefore, we will be glad to know what your requirement is. Because our focus is providing top quality service, we are performing serious quality checks before delivery of our products. As a result, we do optical parameter measurements, connector cleanness tests and QSFP+ transceiver EEPROM memory data validation tests.







Product Specification:

Parameter	Value
Media Type:	Single Mode Fiber
TX Wavelength:	4x1310 nm PSM
RX Wavelength:	4x1310 nm PSM
Minimum Optical Budget:	7 dB
Maximum Distance:	10 km
Supported Data Rate:	39.81 - 44.8 Gbps
Supported Applications:	40G Ethernet (41.25 Gbps), STM256 (39.81 Gbps), OTU3 (43.108 Gbps) and OTU3e2 (44.58 Gbps)
DDM/DOM:	Supported
Temperature Range:	Standard 0°-70°C
Connectors:	MTP/MPO
Tx Wavelength Bandwidth:	80nm (1270-1350 nm)
Rx Wavelength Bandwidth:	80nm (1270-1350 nm)
Minimum Transmitting Power:	Each Lane -5.5 dBm
Maximum Transmitting Power:	Each Lane 1.5 dBm
Receiver Sensitivity:	Each Lane -12.5 dBm
Receiver Overload:	Each Lane 1 dBm
Transmitter Type:	4 x DFB Laser
Receiver Type:	4 x PIN photodiode
Power:	+3.3V single power supply
Compliance:	QSFP+ MSA, SFF-8436, 40GBASE-LR4 PSM, CE, Class 1 FDA and IEC60825-1 Laser Safety Compliant, RoHS





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Compatibility:

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more then 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.



