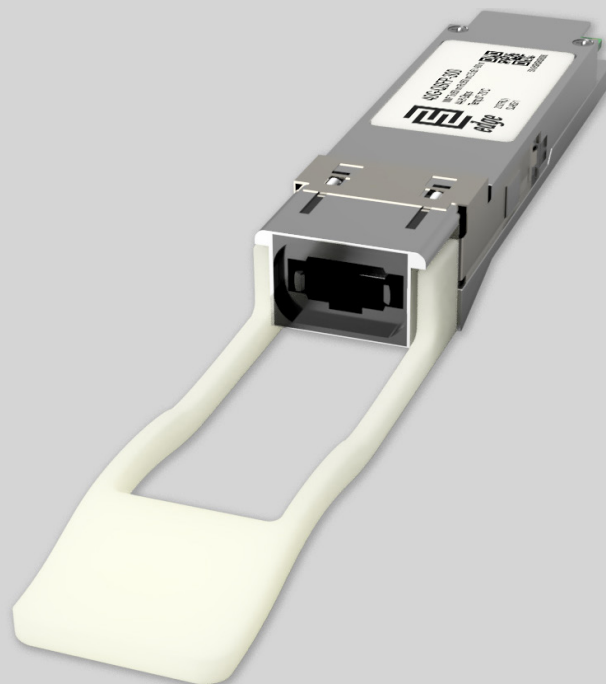


## Key Highlights:

- Type: QSFP+
- Compatibility: Multi-Vendor MSA Compatible
- Tx/Rx Wavelength: 850 nm. / 850 nm.
- Media Type: 4 x Double MMF
- Optical Budget: 2.5 dB
- Max. Distance: 300m(OM3), 400m(OM4)
- Data Rate: 39.81-44.8 Gbps
- Temperature: Standard 0°-70°C



## Optical Transceiver: 40G-QSFP-300

### Product Description:

40G-QSFP-300 is Multi-Vendor MSA Compatible QSFP (Quad Small Form-factor Pluggable) Transceiver, operating over four parallel pairs of multimode optical fiber providing four independent optical communication lanes. It has minimum guaranteed optical budget of 2.5 dB, which in most cases is enough to reach 400 distance using OM4 type multi-mode cable or 300m distance using OM3 type 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. This transceiver use top quality 4 x VCSEL transmitters which operate at nominal wavelength 850 nm and 4 x 850 nm PIN photodiode receivers. Module supports DDM/DOM optical diagnostics, which provide diagnostic information about the present operating conditions. 40G-QSFP-300 operates in Standard 0°-70°C temperature range and has MPO 12 connector. 40G-QSFP-300 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-300 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-300 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:	4 Lanes of MMF
TX Wavelength:	850 nm.
RX Wavelength:	850 nm.
Minimum Optical Budget:	2.5 dB
Maximum Distance:	300 m (OM3) / 400 m (OM4)
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:	20 nm (840-860 nm)
Rx Wavelength Bandwidth:	20 nm (840-860 nm)
Minimum Transmitting Power:	Each Lane -7 dBm
Maximum Transmitting Power:	Each Lane 1 dBm
Receiver Sensitivity:	Each Lane -9.5 dBm
Receiver Overload:	Each Lane 2.4 dBm
Transmitter Type:	4 x VSCEL Laser
Receiver Type:	4 x PIN photodiode
Power:	+3.3V single power supply
Compliance:	QSFP+ MSA, SFF-8436, 40GBASE-CSR4, CE, Class 1 FDA and IEC60825-1 Laser Safety Compliant, RoHS



## 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.

