

## Key Highlights:

- **Type:** XFP
- **Tx Wavelength:** Ch. 17 to Ch. 61 (1563.86 nm – 1528.77 nm)
- **Rx Wavelength:** ITU-T DWDM Grid 100 GHz C-B and
- **Media Type:** Single- Mode Fiber
- **Fiber Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 26 dB
- **Max. Distance:** 120km
- **Data Rate:** 1.24-11.3Gbps
- **Temperature:** Standard 0°-70°C



## Optical Transceiver : DWDM-10G-XFP-120-XX

### Product Description:

DWDM-10G-XFP-120-XX is Multi-Vendor MSA Compatible XFP (10 Gigabit Small Form Factor Pluggable Module) Transceiver, operating over Double Fiber DWDM Single-Mode Fiber (SMF) optical cable. It has minimum guaranteed optical budget of 26 dB, with in most cases is enough to reach about 120 km distance. 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 EML Laser transmitter with operating at nominal wavelengths according to ITU-T DWDM 100 Ghz Grid channels from 17 to 61 (1563.86 nm to 1528.77 nm) and ITU-T DWDM Grid 100 GHz C-Band APD Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. DWDM-10G-XFP-120-XX operates in Standard 0°-70°C temperature range and has Double LC interface. XFP support 1.24-11.32Gbps data rate and such applications as 10G Ethernet (10.31Gbps)|Gigabit Ethernet (1.25 Gbps)|10G Fiber Channel (10.52 Gbps)|8G Fiber Channel (8.5 Gbps)|4G Fiber Channel (4.25 Gbps)|2G Fiber Channel (2.125 Gbps)|1G Fiber Channel (1.0625 Gbps)|STM-16 (2.488 Gbps)|STM-64 (9.95Gbps)|ODU0 (1.244Gbps)|ODU1



(2.498Gbps)|ODU2 (10.037Gbps)|ODU2e (10.399Gbps)|OTU1 (2.66Gbps)|OTU2 (10.70Gbps)|OTU1f (11.27Gbps)|OTU2f (11.32Gbps)|OTU1e (11.049Gbps)|OTU2e (11.095Gbps). DWDM-10G-XFP-120-XX XFP Double Fiber DWDM 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, Various Data Communication 10G Ethernet & SDH/SONET/OTN Links, Data Center networking for both – Ethernet and Fiber Channel SAN Networking and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. DWDM-10G-XFP-120-XX XFP Transceiver is fully compliant to XFP multi-source agreement (MSA) INF-8077i (Rev. 4.5, 2005). 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 XFP 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 cleanliness tests and XFP transceiver EEPROM memory data validation tests.

## Product Specification:

General parameter	Value
Media Type:	Single-Mode Fiber (SMF)
Connectors:	Double LC
TX Wavelength:	Ch. 17 to Ch. 61 (1563.86 nm - 1528.77 nm)
RX Wavelength:	1270-1610 nm
Minimum Optical Budget:	26 dB
Maximum Distance:	120 km
Supported Data Rate:	1.24-11.3Gbps
Supported Applications:	10G Ethernet (10.31Gbps) Gigabit Ethernet (1.25 Gbps) 10G Fiber Channel (10.52 Gbps) 8G Fiber Channel (8.5 Gbps) 4G Fiber Channel (4.25 Gbps) 2G Fiber Channel (2.125 Gbps) 1G Fiber Channel (1.0625 Gbps) STM-16 (2.488 Gbps) STM-64 (9.95Gbps) ODU0 (1.244Gbps) ODU1 (2.498Gbps) ODU2 (10.037Gbps) ODU2e (10.399Gbps) OTU1 (2.66Gbps) OTU2 (10.70Gbps) OTU1f (11.27Gbps) OTU2f (11.32Gbps) OTU1e (11.049Gbps) OTU2e (11.095Gbps)
DDM/DOM:	Supported
Temperature Range:	Standard 0°-70°C
Power Supply Voltage Typical:	+3.3V single power supply
Compliance:	XFP MSA, RoHS, CE, Class 1 FDA and IEC60825-1 Laser Safety Compliant



## Product Specification:

Transmitter Parameters:	Value
Transmitter Type:	EML Laser
Tx Wavelength Bandwidth:	100GHz (0.8nm)
Minimum Transmitting Power:	0 dBm
Maximum Transmitting Power:	6 dBm

Receiver Parameters:	Value
Receiver Type:	APD Photodiode
Rx Wavelength Bandwidth:	1260 - 1620 nm
Receiver Sensitivity:	-26 dBm
Receiver Overload:	-10 dBm



## 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.

## Ordering Information:

Part Number	Data Rate	Applications	Temperature Range	Available DWDM Channels
DWDM-10G-XFP-120-XX*	1.24-11.3Gbps	Up to 120 km	0°-70°C	<b>17 to 61</b> ITU-T 100Ghz C-Band 1563.86nm to 1528.77nm

\*XX represents the chosen channel, thus Ch.17 would be DWDM-10G-XFP-120-17 (1563.86nm, 191.7Thz)

