

Key Highlights:

- **Type:** SFP+
- **Tx Wavelength:** Ch. 27 to Ch. 61 (1270nm – 1610nm)
- **Rx Wavelength:** G.694.2 CWDM Grid (1270-1610nm)
- **Media Type:** Single- Mode Fiber
- **Fiber Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 9 dB
- **Max. Distance:** 10 km
- **Data Rate:** 9.95-11.32Gbps
- **Temperature:** Standard 0°-70°C



Optical Transceiver : CWDM-10G-SFP-10-XX

Product Description:

CWDM-10G-SFP-10-XX is Multi-Vendor MSA Compatible SFP+ (Small Form factor Pluggable) Transceiver, operating over Double Fiber CWDM Single-Mode Fiber (SMF) optical cable. It has minimum guaranteed optical budget of 9 dB, with in most cases is enough to reach about 10 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 DFB Laser transmitter with operating at nominal wavelength 1270-1640 nm and 1270-1610 nm PIN Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. CWDM-10G-SFP-10-XX operates in Standard 0°-70°C temperature range and has Double LC interface. SFP+ support 9.95-11.32Gbps data rate and such applications as 10G Ethernet (10.31Gbps)|STM-64 (9.95Gbps)|OTU2 (10.70Gbps)|OTU1e (11.049Gbps)|OTU2e (11.095Gbps)|OTU1f (11.27Gbps)|OTU2f (11.32Gbps)|ODU2 (10.037Gbps)|ODU2e (10.399Gbps).



CWDM-10G-SFP-10-XX SFP+ Double Fiber CWDM 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 backhaul SDH/SONET applications, Data Center networking site interconnections and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. CWDM-10G-SFP-10-XX SFP+ Transceiver is fully compliant to SFP+ Multi Source Agreement SFF-8431. 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 SFP+ 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 SFP+ transceiver EEPROM memory data validation tests.

Product Specification:

General parameter	Value
Media Type:	Single-Mode Fiber (SMF)
Connectors:	Double LC
TX Wavelength:	Ch. 27 to Ch. 61 (1270nm – 1610nm)
RX Wavelength:	G.694.2 CWDM Grid (1270-1610nm)
Minimum Optical Budget:	9 dB
Maximum Distance:	10 km
Supported Data Rate:	9.95-11.32Gbps
Supported Applications:	10G Ethernet (10.31Gbps) STM-64 (9.95Gbps) OTU2 (10.70Gbps) OTU1e (11.049Gbps) OTU2e (11.095Gbps) OTU1f (11.27Gbps) OTU2f (11.32Gbps) ODU2 (10.037Gbps) ODU2e (10.399Gbps)
DDM/DOM:	Supported
Temperature Range:	Standard 0°-70°C
Power Supply Voltage Typical:	+3.3V single power supply
Compliance:	SFP MSA, SFF-8472, RoHS, CE, Class 1 FDA and IEC60825-1 Laser Safety Compliant



Product Specification:

Transmitter Parameters:	Value
Transmitter Type:	DFB Laser
Tx Wavelength Bandwidth:	20 nm (1260nm-1280nm)
Minimum Transmitting Power:	-6 dBm
Maximum Transmitting Power:	1 dBm

Receiver Parameters:	Value
Receiver Type:	PIN Photodiode
Rx Wavelength Bandwidth:	G.694.2 grid: 1270-1610 nm
Receiver Sensitivity:	-15 dBm
Receiver Overload:	0.5 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
CWDM-10G-SFP-10-XX*	9.95-11.32Gbps	Up to 10 km	0°-70°C	27 to 61 G.694.2 CWDM Grid (1270-1610nm)

*XX represents the chosen channel, thus Ch.27 would be CWDM-10G-SFP-10-27 (1270nm)

