

Key Highlights:

- **Type:** SFP+
- **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:** 11 dB
- **Max. Distance:** 20 km
- **Data Rate:** 4.25-14.025 Gbps
- **Temperature:** Standard 0°-70°C



Optical Transceiver : DWDM-16GFC-SFP-20-XX

Product Description:

DWDM-16GFC-SFP-20-XX is Multi-Vendor MSA Compatible SFP+ (Small Form factor Pluggable) Transceiver, operating over Double Fiber DWDM Single-Mode Fiber (SMF) optical cable. It has minimum guaranteed optical budget of 11 dB, with in most cases is enough to reach about 20 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 wavelength Ch. 17 to Ch. 61 (1563.86 nm – 1528.77 nm) and ITU-T DWDM Grid 100 GHz C-Band PIN Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. DWDM-16GFC-SFP-20-XX operates in Standard 0°-70°C temperature range and has Double LC interface. SFP+ support 4.25-14.025 Gbps data rate and such applications as 16G FC (14.025Gbps)|8G FC (8.5 Gbps)|4G FC (4.25 Gbps).



ODWDM-16GFC-SFP-20-XX SFP+ Double Fiber DWDM optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular applications are T11 Fibre Channel infrastructure, SAN Networking backwards compatible with 8G and 4G Fibre Channel, and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. DWDM-16GFC-SFP-20-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. 17 to Ch. 61 (1563.86 nm - 1528.77 nm) |
| RX Wavelength: | ITU-T DWDM Grid 100 GHz C-Band |
| Minimum Optical Budget: | 11 dB |
| Maximum Distance: | 20 km |
| Supported Data Rate: | 4.25-14.025 Gbps |
| Supported Applications: | 16G FC (14.025Gbps) 8G FC (8.5 Gbps) 4G FC (4.25 Gbps) |
| DDM/DOM: | Supported |
| Temperature Range: | Standard 0°-70°C |
| Power Supply Voltage Typical: | +3.3V single power supply |
| Compliance: | CE Class 1 FDA and IEC60825-1 Laser Safety Compliant RoHS SFF-8431 SFP MSA FC-PI-5 Rev 6.00 |



Product Specification:

| Transmitter Parameters: | Value |
|-----------------------------|----------------|
| Transmitter Type: | EML Laser |
| Tx Wavelength Bandwidth: | 100GHz (0.8nm) |
| Minimum Transmitting Power: | -2 dBm |
| Maximum Transmitting Power: | 2 dBm |

| Receiver Parameters: | Value |
|--------------------------|----------------|
| Receiver Type: | PIN Photodiode |
| Rx Wavelength Bandwidth: | 1260 - 1620 nm |
| Receiver Sensitivity: | -13 dBm |
| Receiver Overload: | 2 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-16GFC-SFP-20-XX* | 4.25-14.025 Gbps | Up to 20 km | 0°-70°C | 17 to 61 ITU-T 100Ghz C-Band 1563.86nm to 1528.77nm |

*XX represents the chosen channel, thus Ch.17 would be DWDM-16GFC-SFP-20-17 (1563.86nm, 191.7Thz)

