

Key Highlights:

- **Type:** SFP
- **Tx/Rx Wavelength:** Ch. 17 to Ch. 61 (1563.86 nm - 1528.77 nm)/ ITU-T DWDM Grid 100 GHz C-Band
- **Media Type:** Single- Mode Fiber
- **Fiber Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 37 dB
- **Max. Distance:** 160km
- **Data Rate:** 1.063-1.25Gbps
- **Temperature:** Standart 0°C - 70°C



Optical Transceiver : DWDM-1.25G-SFP-160-XX

Product Description:

DWDM-1.25G-SFP-160-XX is Multi-Vendor MSA Compatible 1.25G DWDM SFP multi-rate (1.063-1.25Gbps) transceiver designed for operation over Double Single-Mode Fiber (SMF) optical cable in Transmission network environments for inter-connection of metro long haul links. DWDM-1.25G-SFP-160-XX transceiver has a guaranteed optical budget of 37 dB, which in most cases is enough to reach up to 160 kilometer distance. Distance is just an indicative parameter for comfort of identification that is calculated by taking into account minimal optical budget and average attenuation of optical cabling in industry. On the transmission side 1.25G DWDM SFP module converts a 1.25Gbps NRZ electrical signal into a 1.25Gbps optical signal on a specific wavelength and reversely at the receiver side 1.25Gbps optical signal is converted into 1.25Gbps NRZ electrical signal. DWDM-1.25G-SFP-160-XX 1.25G DWDM SFP transceiver has a fixed laser with 45 channel support from the ITU-T 100GHz DWDM Channel Grid, more specifically Channel 17 to Channel 61 (191.7~196.1 THz) are supported, which need to be specified when ordering.



Fixed wavelength 1.25G DWDM SFP Module has DDM/DOM optical diagnostics functionality, which provides real time access to device operating parameters, control and status registers as specified in SFF-8472. DWDM-1.25G-SFP-160-XX operates in standard 0° to 70°C temperature range and has a Double LC interface. This SFP module supports 1.063-1.25Gbps data rate and such applications as Gigabit Ethernet (1.25 Gbps), 1G Fiber Channel (1.0625 Gbps).

This fixed wavelength 1.25G DWDM SFP Module is CE/RoHS certified and it is Compliant with product safety standards. 1.25 DWDM SFP Transceiver is fully compliant to SFP 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 an SFP transceiver with custom-encoded firmware in order to make it work in almost any base station manufacturers equipment. Therefore, we will be glad to know your requirements – Contact us.

Product Specification:

General parameter	Value
Media Type:	Single-Mode Fiber (SMF)
Connectors:	Double LC
TX Wavelength:	Fixed 45 Channel (CH: 17-61) ITU-T 100Ghz C-Band
RX Wavelength:	1270-1610 nm
Minimum Optical Budget:	37 dB
Maximum Distance:	160 km
Supported Data Rate:	1.063-1.25Gbps
Supported Applications:	1G Eth (1.25Gbps), 1G FC (1.063Gbps)
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:	ITU-T DWDM Grid 100 GHz C-Band
Minimum Transmitting Power:	2 dBm
Maximum Transmitting Power:	5 dBm

Receiver Parameters:	Value
Receiver Type:	APD Photodiode
Rx Wavelength Bandwidth:	1270-1610 nm
Receiver Sensitivity:	-35 dBm
Receiver Overload:	-7 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-1.25G-SFP-160-XX*	1.063-1.25Gbps	Up to 160 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-1.25G-SFP-160-17 (1563.86nm, 191.7Thz)

