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OPTICAL SOLUTIONS

Product Data Sheet

Key Highlights:

- **Type**: SFP
- **Compatibility**: Multi-Vendor MSA Compatible
- **Application**: Transport Network
- **Tx/Rx Wavelength**: 45 Channel (17-61) ITU-T 100Ghz C-Band
- **Fiber Type**: Single-Mode Fiber (SMF)
- **Connectors**: Double LC
- **Optical Budget**: 24dB
- **Max. Distance**: 80km
- **Data Rate**: 1.063-1.25Gbps
- **DDM/DOM**: Supported
- **Temperature**: Standard 0°-70°C

Optical Transceiver : DWDM-1.25G-SFP-80-XX

Product Description:

DWDM-1.25G-SFP-80-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-80-XX transceiver has a guaranteed optical budget of 24 dB, which in most cases is enough to reach up to 80 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-80-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.

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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-80-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:	24dB
Maximum Distance:	80 km
Supported Data Rate:	1.063-1.25Gbps
Supported Applications:	Gigabit Ethernet (1.25 Gbps), 1G Fiber Channel (1.0625 Gbps))
Digital Diagnostic Monitoring (DDM):	Supported
Operating Temperature Range:	0° to 70°C
Power Supply Voltage Typical:	+ 3.3V
Compliance:	CE, Class 1 FDA and IEC60825-1 Laser Safety Compliant, INF-8074i, RoHS, SFP MSA

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Transmitter Parameters:	Value
Transmitter Type:	DFB Laser
Tx Wavelength Bandwidth:	ITU-T DWDM Grid 100 GHz C-Band
Minimum Transmitting Power:	0 dBm
Maximum Transmitting Power:	4 dBm

Receiver Parameters:	Value
Receiver Type:	PIN photodiode
Rx Wavelength Bandwidth:	1270-1610 nm
Receiver Sensitivity:	-24 dBm
Receiver Overload:	-3 dBm

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Compatibility:

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more then 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. Warranty does not cover damage caused by improper deployment, misuse and accidents.

Ordering Information:

Part Number	Data Rate	Applications	Temperature Range	Available DWDM Channels
DWDM-1.25G-SFP-80-XX*	1.063-1.25Gbps	Up to 80 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-80-17 (1563.86nm, 191.7Thz)