

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:** 14 dB
- **Max. Distance:** 40km
- **Data Rate:** 1.24-11.3Gbps
- **Temperature:** Standard 0°-70°C



Optical Transceiver : DWDM-10G-XFP-40-XX

Product Description:

DWDM-10G-XFP-40-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 14 dB, with in most cases is enough to reach about 40 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 PIN Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. DWDM-10G-XFP-40-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-40-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-40-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:	14 dB
Maximum Distance:	40 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:	-2 dBm
Maximum Transmitting Power:	3 dBm

Receiver Parameters:	Value
Receiver Type:	PIN Photodiode
Rx Wavelength Bandwidth:	1260 - 1620 nm
Receiver Sensitivity:	-16 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
DWDM-10G-XFP-40-XX*	1.24-11.3Gbps	Up to 40 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-10G-XFP-40-17 (1563.86nm, 191.7Thz)

