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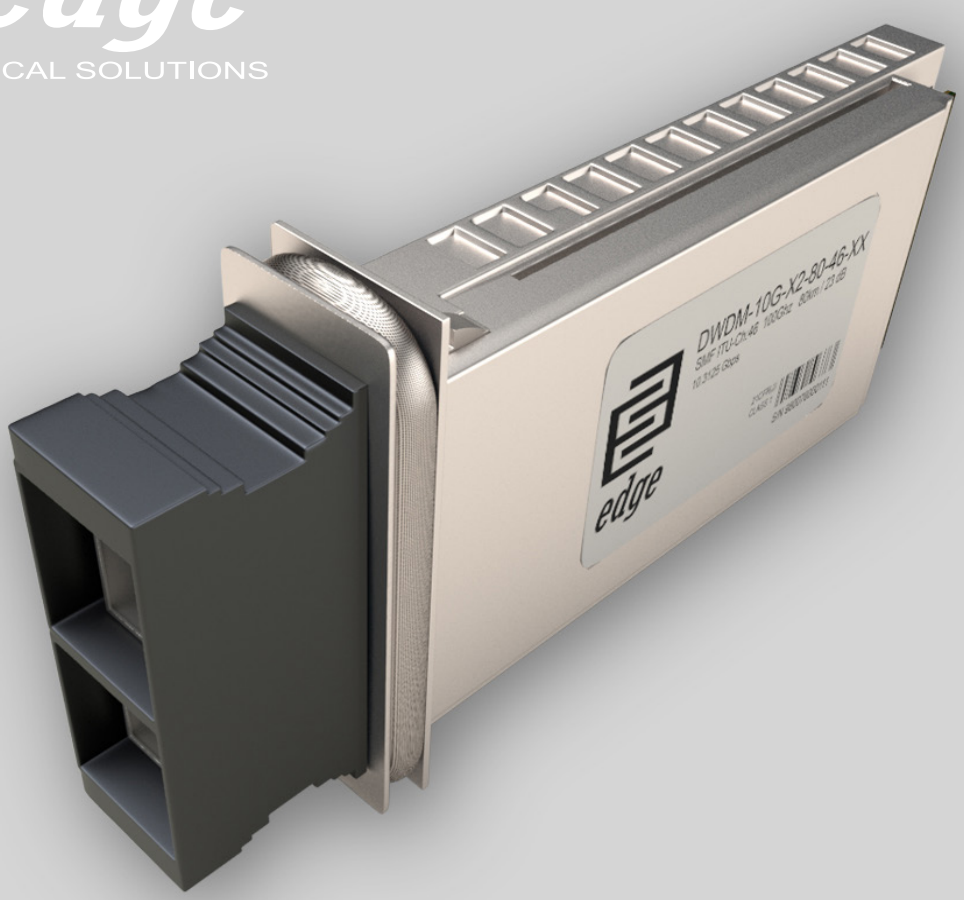

PRODUCT DATA SHEET

Optical Transceiver: DWDM-10G-X2-80-46

Description:

DWDM-10G-X2-80-46 is multi-vendor compatible X2 Transceiver module, operating over double fiber single-mode optical cable with maximum distance 80km. DWDM-10G-X2-80-46 uses Ch. 46 (1540.56 nm) transmitting EML laser and APD receiver supporting all ITU-T C-Band 100GHz Channel Spacing DWDM grid (Ch.17 – Ch.61)and supports 10.3125 Gbps Ethernet.

DWDM-10G-X2-80-46 Transceiver is fully compliant to X2 MSA Rev.2.0b and it can be provided with custom-encoded firmware, in order to provide compatibility of most equipment vendors platforms in data communications industry.

Key Highlights:

- **Type: X2**
- **Tx/Rx Wavelength: Ch 46 (1540.56 nm)/ ITU-T DWDM Grid 100 GHz C-Band**
- **Media Type: Single-Mode Fiber**
- **Optical Budget: 23 dB**
- **Max. Distance: 80 km**
- **Data Rate: 10.3125Gbps**
- **Temperature: Standard 0°-70°C**

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EDGE Technologies Ltd.
Vilipa Street 12-53A, Riga
Latvia, LV-1083
sales@edgeoptic.com
www.edgeoptic.com

TECHNICAL SPECIFICATION

Parameter	Value
Product Type:	DWDM-10G-X2-80-46
Media Type:	Single-Mode Fiber
TX Wavelength:	Ch 46 (1540.56 nm)
RX Wavelength:	ITU-T 100GHz C-Band (Ch.17-Ch.61)
Minimum Optical Budget:	23 dB
Maximum Distance:	80 km
Supported Data Rate:	10.3125Gbps
Supported Applications:	10G Ethernet (10.3125 Gbps)
DDM/DOM:	Supported
Temperature Range:	Standard 0°-70°C
Connectors:	Double LC
Tx Wavelength Bandwidth:	100GHz (0.8nm)
Rx Wavelength Bandwidth:	1260 - 1620 nm
Transmitting Power (Min/Max):	0 / 4 dB
Receiver Sensitivity:	-23 dB
Receiver Overload:	-9 dB
Dispersion:	1600 ps/nm
Laser:	EML
Receiver Type:	APD
Chip:	SEMTECH/MAXIM/MINDSPEED
Power:	+3.3V single power supply
Compliance:	X2 MSA Rev.2.0b, RoHS, CE, Class 1 FDA and IEC60825-1 Laser Safety Compliant

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Compatibility

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more then 50 vendor brands in data and telecom communications industry:

MS - General MSA
AD - ADVA
AL - Alcatel-Lucent
AR - Arista
AV - Avaya
BR - Brocade
CN - Ciena
CI - Cisco
DL - Dell & Force10
DK - D-Link
EM - EMC2
ET - Enterasys

ER - Ericsson
EX - Extreme Networks
F5 - F5 Networks
FO - Fortinet
FU - Fujitsu
H3 - H3C
HI - Hirschmann
HP* - HP Networking
HS* - HP Storage
HU - Huawei
IB - IBM
IF - Infinera

IN - Intel
JU - Juniper Networks
LI - Linksys
ML - Mellanox
ME - Meraki (Cisco)
MT - MikroTik
MO - Moxa
MR - MRV
NG - Netgear
NS - NSN
PA - Palo Alto Network
QL - Qlogic

RD - RAD
RU - Ruijie Networks
SM - Supermicro
SY - Synology
TC - Telco Systems
TP - TP-LINK
TN - Trendnet
WG - WatchGuard
ZT - ZTE
XX - Other

* - Please note HP compatible module prices can be higher then prices indicated in this material due to special requirements in coding. If you require HP compatibility, for exact pricing please contact our sales team: sales@edgeoptic.com

Product Quality

We focus on strict product quality tests before each delivery, performing optical parameter tests, connector cleanliness tests and firmware verification tests to ensure our delivered products fully meets the promised product technical specification and compatibility requirements.

EDGE Optical transceivers are CE, ROHS certified and have passed Telecordia reliability tests.

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.

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