



PRODUCT DATA SHEET

Optical Transceiver: DWDM-10G-XFP-80-27

Description:

DWDM-10G-XFP-80-27 is multi-vendor compatible XFP Transceiver module, operating over double fiber single-mode optical cable with maximum distance 80km. DWDM-10G-XFP-80-27 uses Ch. 27 (1555.75 nm) transmitting EML laser and APD receiver supporting all ITU-T C-Band 100GHz Channel Spacing DWDM grid (Ch.17 – Ch.61) and supports 1.24-11.3Gbps data rates. DWDM-10G-XFP-80-27 XFP Transceiver is fully compliant to XFP Multi Source Agreement INF-8077i 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:** XFP
- **Tx/Rx Wavelength:** Ch 27 (1555.75 nm)/ ITU-T DWDM Grid 100 GHz C-Band
- **Media Type:** Single-Mode Fiber
- **Optical Budget:** 23 dB
- **Max. Distance:** 80 km
- **Data Rate:** 1.24-11.3Gbps
- **Temperature:** Standard 0°-70°C

TECHNICAL SPECIFICATION

Parameter	Value
Product Type:	DWDM-10G-XFP-80-27
Media Type:	Single-Mode Fiber
TX Wavelength:	Ch 27 (1555.75 nm)
RX Wavelength:	1270-1610 nm
Minimum Optical Budget:	23 dB
Maximum Distance:	80 km
Supported Data Rate:	1.24-11.3Gbps
Supported Applications:	• 10G Eth (10.31Gbps) • 1G Eth (1.25Gbps) • STM-64 (9.95Gbps) • STM-16 (2.488 Gbps) • OTU1 (2.66Gbps) • OTU2 (10.70Gbps) • OTU1e (11.049Gbps) • OTU2e (11.095Gbps) • OTU1f (11.27Gbps) • OTU2f (11.32Gbps) • ODU0 (1.244Gbps) • ODU1 (2.498Gbps) • ODU2 (10.037Gbps) • ODU2e (10.399Gbps) • 10G FC (10.52 Gbps) • 8.5G FC (8.5 Gbps) • 4G FC (4.25 Gbps) • 2G FC (2.125 Gbps) • 1G FC (1.0625 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:	-10 dB

Parameter	Value
Dispersion:	1600 ps/nm
Laser:	EML
Receiver Type:	APD
Chip:	SEMTECH/MAXIM/MINDSPEED
Power:	+3.3V single power supply
Compliance:	• XFP MSA, • RoHS, • CE, • Class 1 FDA and IEC60825-1 Laser Safety Compliant

Compatibility

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more than 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 than 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 meet 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.