

ge Product Data Sheet

Key Highlights:

• Type: SFP+

• Compatibility: Multi-Vendor MSA Compatible

• Tx Wavelength: Ch. 46 (1540.56 nm)

• Rx Wavelenght: ITU-T DWDM Grid 100 GHz C-Band

• Media Type: Single-Mode Fiber (SMF)

Optical Budget: 23 dBMax. Distance: 80 km

Data Rate: 1.228-10.138 Gbps
Temperature: Standard 0°-70°C



Optical Transceiver: DWDM-10GFH-SFP-80-46

Product Description:

DWDM-10GFH-SFP-80-46 is Multi-Vendor MSA Compatible SFP+ (Small Form factor Pluggable) Transceiver, operating over Double Fiber DWDM Single-Mode Fiber (SMF) optical cable. It has minimum guaranteed optical budget of 23 dB, with in most cases is enough to reach about 80 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 wavelength Ch. 46 (1540.56 nm) and ITU-T DWDM Grid 100 GHz C-Band APD Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. DWDM-10GFH-SFP-80-46 operates in Standard 0°-70°C temperature range and has Double LC interface. SFP+ support 1.228-10.138 Gbps data rate and such applications as CPRI option 2 (1228.8 Mbps)|CPRI option 3 (2.458 Gbps)|CPRI option 5 (4.915 Gbps)|CPRI option 6 (6.144 Gbps)|CPRI option 7 (9.830 Gbps)|CPRI option 8 (10.138 Gbps)|OBSAI RP3 x 2 (1.536 Gbps)|OBSAI RP3 x 4 (3.072 Gbps)|OBSAI RP3 x 8 (6.144 Gbps). DWDM-10GFH-SFP-80-46 SFP+ Double Fiber DWDM optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular applications are CPRI LTE 4G RRU and BBU Interconnections in C-RAN Frounthaul, OBSAI LTE 4G RRU and BBU Interconnections in C-RAN Frounthaul and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. DWDM-10GFH-SFP-80-46 SFP+ Transceiver is fully compliant to SFP+ Multi Source Agreement SFF-8431. 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 SFP+ 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 cleanness tests and SFP transceiver EEPROM memory data validation tests.







Product Specification:

Parameter	Value
Media Type:	Single-Mode Fiber (SMF)
Tx Wavelength:	Ch. 46 (1540.56 nm)
Rx Wavelength:	ITU-T DWDM Grid 100 GHz C-Band
Minimum Optical Budget:	23 dB
Maximum Distance:	80 km
Supported Data Rate:	1.228-10.138 Gbps
Supported Applications:	CPRI option 2 (1228.8 Mbps) CPRI option 3 (2.458 Gbps) CPRI option 5 (4.915 Gbps) CPRI option 6 (6.144 Gbps) CPRI option 7 (9.830 Gbps) CPRI option 8 (10.138 Gbps) OBSAI RP3 x 2 (1.536 Gbps) OBSAI RP3 x 4 (3.072 Gbps) OBSAI RP3 x 8 (6.144 Gbps)
DDM/DOM:	Support
Temperature Range:	Standard 0°-70°C
Connectors:	Double LC
Tx Wavelength Bandwidth:	100GHz (0.8nm)
Rx Wavelength Bandwidth:	1260 - 1620 nm
Minimum Transmitting Power:	0 dB
Maximum Transmitting Power:	5 dB
Receiver Sensitivity:	-23 dBm
Receiver Overload:	-6 dBm
Dispersion:	1600 ps/nm
Transmitter Type:	EML Laser
Receiver Type:	APD Photodiode
Sidemode Suppression Ratio:	35 dB
Max. Receiver Reflectance:	- 12 dB
Power:	+3.3V single power supply
Power Consumption:	350mA
MTBF value at 35 °C:	1'000'000 Hours.
Chip-set:	MAXIM MINDSPEED SEMTECH
Compliance:	CE Class 1 FDA and IEC60825-1 Laser Safety Compli- ant RoHS SFF-8431 SFP MSA





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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 **FO** - Fortinet

ER - Ericsson

FU - Fujitsu **H3** - H3C

HI - Hirschmann

F5 - F5 Networks

HP* - HP Networking

EX - Extreme Networks

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

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.



