

ge Product Data Sheet

Key Highlights:

• Type: SFP+

• Compatibility: Multi-Vendor MSA Compatible

• Tx Wavelength: 1310 nm

• Rx Wavelenght: 1270-1610 nm

• Media Type: Single-Mode Fiber (SMF)

Optical Budget: 23 dBMax. Distance: 80 km

Data Rate: 1.0625-10.52 Gbps
Temperature: Standard 0°-70°C



Optical Transceiver: CWDM-10GFC-SFP-80-31

Product Description:

CWDM-10GFC-SFP-80-31 is Multi-Vendor MSA Compatible SFP+ (Small Form factor Pluggable) Transceiver, operating over Double Fiber CWDM 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 DFB Laser transmitter with operating at nominal wavelength 1310 nm and 1270-1610 nm APD Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. CWDM-10GFC-SFP-80-31 operates in Standard 0°-70°C temperature range and has Double LC interface. SFP+ support 1.0625-10.52 Gbps data rate and such applications as 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). CWDM-10GFC-SFP-80-31 SFP+ Double Fiber CWDM optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular applications are Storage Area Networking SAN Applications in Data Centers, Data Center Fiber Channel Interconnections over Backbone, Enterprise Networks SAN Interconnections and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. CWDM-10GFC-SFP-80-31 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.







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Product Specification:

| Parameter | Value |
|-----------------------------|--|
| Media Type: | Single-Mode Fiber (SMF) |
| Tx Wavelength: | 1310 nm |
| Rx Wavelength: | 1270-1610 nm |
| Minimum Optical Budget: | 23 dB |
| Maximum Distance: | 80 km |
| Supported Data Rate: | 1.0625-10.52 Gbps |
| Supported Applications: | 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) |
| DDM/DOM: | Support |
| Temperature Range: | Standard 0°-70°C |
| Connectors: | Double LC |
| Tx Wavelength Bandwidth: | 20nm (1600 - 1620 nm) |
| Rx Wavelength Bandwidth: | G.694.2 CWDM Grid (1270-1610nm) |
| Minimum Transmitting Power: | 0 dB |
| Maximum Transmitting Power: | 5 dB |
| Receiver Sensitivity: | -23 dBm |
| Receiver Overload: | 0.5 dBm |
| Dispersion: | 1600 ps/nm |
| Transmitter Type: | DFB 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.



