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Product Data Sheet

Key Highlights:

- **Type**: SFP+
- **Tx Wavelength:** Ch. 27 to Ch. 61 (1270nm – 1610nm)
- **Rx Wavelength:** G.694.2 CWDM Grid (1270-1610nm)
- **Media Type:** Single- Mode Fiber
- **Fiber Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 13 dB
- **Max. Distance:** 40 km
- **Data Rate:** 1.0625-10.52 Gbp
- **Temperature:** Standard 0°-70°C

Optical Transceiver : CWDM-10GFC-SFP-40-XX

Product Description:

CWDM-10GFC-SFP-40-XX 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 13 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 DFB Laser transmitter with operating at nominal wavelength Ch. 27 – Ch. 61 (1270nm – 1610nm) PIN Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. CWDM-10GFC-SFP-40-XX 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).

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CWDM-10GFC-SFP-40-XX 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-40-XX 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:

General parameter	Value
Media Type:	Single-Mode Fiber (SMF)
Connectors:	Double LC
TX Wavelength:	Ch. 27 to Ch. 61 (1270nm – 1610nm)
RX Wavelength:	G.694.2 CWDM Grid (1270-1610nm)
Minimum Optical Budget:	13 dB
Maximum Distance:	40 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:	Supported
Temperature Range:	Standard 0°-70°C
Power Supply Voltage Typical:	+3.3V single power supply
Compliance:	CE|Class 1 FDA and IEC60825-1 Laser Safety Compliant|RoHS|SFF-8431|SFP MSA

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Product Data Sheet

Product Specification:

Transmitter Parameters:	Value
Transmitter Type:	DFB Laser
Tx Wavelength Bandwidth:	20 nm (1260nm-1280nm)
Minimum Transmitting Power:	-3 dBm
Maximum Transmitting Power:	3 dBm

Receiver Parameters:	Value
Receiver Type:	PIN Photodiode
Rx Wavelength Bandwidth:	G.694.2 grid: 1270-1610 nm
Receiver Sensitivity:	-16 dBm
Receiver Overload:	0.5 dBm

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Product Data Sheet

Compatibility:

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more then 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
CWDM-10GFC-SFP-40-XX*	1.0625-10.52 Gbps	Up to 40 km	0°-70°C	**27 to 61** G.694.2 CWDM Grid (1270-1610nm)

*XX represents the chosen channel, thus Ch.27 would be CWDM-10GFC-SFP-40-27 (1270nm)

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