

# ge Product Data Sheet

# **Key Highlights:**

• Type: SFP+

• Compatibility: Multi-Vendor MSA Compatible

• Tx Wavelength: Ch. 22 (1559.79 nm)

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

• Media Type: Single-Mode Fiber (SMF)

Optical Budget: 13 dBMax. Distance: 40 km

• Data Rate: 4.25-14.025 Gbps

• Temperature: Standard 0°-70°C



# Optical Transceiver: DWDM-16GFC-SFP-40-22

## **Product Description:**

DWDM-16GFC-SFP-40-22 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 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 EML Laser transmitter with operating at nominal wavelength Ch. 22 (1559.79 nm) and ITU-T DWDM Grid 100 GHz C-Band PIN Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. DWDM-16GFC-SFP-40-22 operates in Standard 0°-70°C temperature range and has Double LC interface. SFP+ support 4.25-14.025 Gbps data rate and such applications as 16G FC (14.025Gbps)|8G FC (8.5 Gbps)|4G FC (4.25 Gbps). DWDM-16GFC-SFP-40-22 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 T11 Fibre Channel infrastructure, SAN Networking backwards compatible with 8G and 4G Fibre Channel and other optical links. Transceiver is CE/RoHS certified and it is Compliant with product safety standards. DWDM-16GFC-SFP-40-22 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. 22 (1559.79 nm)
Rx Wavelength:	ITU-T DWDM Grid 100 GHz C-Band
Minimum Optical Budget:	13 dB
Maximum Distance:	40 km
Supported Data Rate:	4.25-14.025 Gbps
Supported Applications:	16G FC (14.025Gbps) 8G FC (8.5 Gbps) 4G FC (4.25 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:	-1 dB
Maximum Transmitting Power:	3 dB
Receiver Sensitivity:	-14 dBm
Receiver Overload:	2 dBm
Dispersion:	To Be Updated
Transmitter Type:	EML Laser
Receiver Type:	PIN Photodiode
Sidemode Suppression Ratio:	35 dB
Max. Receiver Reflectance:	- 12 dB
Power:	+3.3V single power supply
MTBF value at 35 °C:	1'000'000 Hours.
Chip-set:	Sumitomo
Compliance:	CE Class 1 FDA and IEC60825-1 Laser Safety Compli- ant RoHS SFF-8431 SFP MSA FC-PI-5 Rev 6.00





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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

### 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.



