

Key Highlights:

- Type: CFP2
- Compatibility: Multi-Vendor MSA Compatible
- Tx/Rx Wavelength: 1310 nm. / 1310 nm.
- Media Type: Double Fiber Single-Mode Fiber (SMF.)
- Optical Budget: 18 dB
- Max. Distance: 40 km
- Data Rate: 103.1 to 112 Gbps
- Temperature: Standard 0°-70°C



Adapter Module: 100G-CFP2-40

Product Description:

100G-CFP2-40 is Multi-Vendor MSA Compatible CFP2 (C (*centum*) Form Factor Pluggable 2) Transceiver, operating over 4 Parallel Lanes of Double Fiber Single-Mode Fiber (SMF) optical cable. It has minimum guaranteed optical budget of 18 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 4 x EML Laser transmitters with operating within nominal wavelength 1310 nm (4 WDM Separated 1310 nm Lanes - L0 Tx center 1295.56nm, L1 Tx center 1300.05nm, L2 Tx center 1304.58nm, L3 Tx center 1309.14nm) and 4 x 1310 nm PIN Photodiode receivers. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. 100G-CFP2-40 operates in Standard 0°-70°C temperature range and has Double LC connector. CFP2 support 103.1 - 112 Gbps data rate and such applications as 100G Ethernet (103.1 Gbps) and OTU4 (112Gbps). 100G-CFP2-40 optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular applications are Internet Service Provider (ISP) Fiber To The Home aggregation and backbone, Mobile operator core and back-haul 100G applications, Data Center networking site interconnections and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. 100G-CFP2-40 CFP2 Transceiver is fully compliant to CFP2 Multi Source Agreement version 1.0. 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 CFP2 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 CFP2 transceiver EEPROM memory data validation tests.



Product Specification:

Parameter	Value
Media Type:	Single-Mode Fiber (SMF)
TX Wavelength:	1310 nm.
RX Wavelength:	1310 nm.
Minimum Optical Budget:	18 dB
Maximum Distance:	40 km
Supported Data Rate:	103.1 - 112 Gbps
Supported Applications:	100G Eth (103.1Gbps), OTU4 (112Gbps)
DDM/DOM:	Supported
Temperature Range:	Standard 0°-70°C
Connectors:	Double LC
Tx Wavelength Bandwidth:	4 WDM Separated 1310 nm Lanes (15.66 nm 1294.53 – 1310.19nm) (L0 Tx center 1295.56nm, L1 Tx center 1300.05nm, L2 Tx center 1304.58nm, L3 Tx center 1309.14nm)
Rx Wavelength Bandwidth:	4 WDM Separated 1310 nm Lanes (15.66 nm 1294.53 – 1310.19nm) (L0 Tx center 1295.56nm, L1 Tx center 1300.05nm, L2 Tx center 1304.58nm, L3 Tx center 1309.14nm)
Minimum Transmitting Power:	Each Lane -2.9 dBm
Maximum Transmitting Power:	Each Lane 2.9 dBm
Receiver Sensitivity:	Each Lane -20.9 dBm
Receiver Overload:	Each Lane 4.5 dBm
Transmitter Type:	4 x EML Laser
Receiver Type:	4 x PIN photodiode
Power:	+3.3V single power supply
Compliance:	CFP2 MSA, IEEE 802.3ba, 100GBASE-ER4 CE, Class 1 FDA and IEC60825-1 Laser Safety Compliant, RoHS,



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

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.

