

Key Highlights:

- **Type:** SFP
- **Compatibility:** Multi-Vendor MSA Compatible
- **Tx Wavelength:** 1490 nm.
- **Rx Wavelength:** 1310 nm.
- **Media Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 17 dB
- **Max. Distance:** 40 km
- **Data Rate:** 1.063-1.25Gbps
- **Temperature:** Industrial -45°C - +85°C



Optical Transceiver: BIDI-1.25G-SFP-41-BDI

Product Description:

BIDI-1.25G-SFP-41-BDI is Multi-Vendor MSA Compatible SFP (Small Form factor Pluggable) Transceiver, operating over Single Fiber Single-Mode Fiber (SMF) optical cable. It has minimum guaranteed optical budget of 17 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 1490 nm. and 1310 nm. PIN Photodiode receiver. It support DDM/DOM optical diagnostics, with provide diagnostic information about the present operating conditions. BIDI-1.25G-SFP-41-BDI operates in Industrial -45°C - +85°C temperature range and has Single LC interface. SFP support 1.063-1.25Gbps data rate and such applications as Gigabit Ethernet (1.25 Gbps)|1G Fiber Channel (1.0625 Gbps). BIDI-1.25G-SFP-41-BDI SFP Single Fiber optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular applications are Gigabit Ethernet communication links in extreme industrial environment, Enterprise LAN & SAN Networks with high or low environment temperature demand Data Center LAN & SAN Networks and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. BIDI-1.25G-SFP-41-BDI SFP Transceiver is fully compliant to SFP Multi Source Agreement INF-8074i. 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 cleanliness tests and SFP transceiver EEPROM memory data validation tests.



Product Specification:

| Parameter | Value |
|-----------------------------|---|
| Media Type: | Single-Mode Fiber (SMF) |
| Tx Wavelength: | 1490 nm. |
| Rx Wavelength: | 1310 nm. |
| Minimum Optical Budget: | 17 dB |
| Maximum Distance: | 40 km |
| Supported Data Rate: | 1.063-1.25Gbps |
| Supported Applications: | Gigabit Ethernet (1.25 Gbps) 1G Fiber Channel (1.0625 Gbps) |
| DDM/DOM: | Support |
| Temperature Range: | Industrial -45°C - +85°C |
| Connectors: | Single LC |
| Tx Wavelength Bandwidth: | 40 nm (1470-1510 nm) |
| Rx Wavelength Bandwidth: | 40 nm (1290-1330 nm) |
| Minimum Transmitting Power: | -6 dB |
| Maximum Transmitting Power: | 0 dB |
| Receiver Sensitivity: | -23 dBm |
| Receiver Overload: | -3 dBm |
| Dispersion: | 800-1000 ps/nm |
| Transmitter Type: | DFB Laser |
| Receiver Type: | PIN Photodiode |
| Sidemode Suppression Ratio: | 35 dB |
| Max. Receiver Reflectance: | - 12 dB |
| Power: | +3.3V single power supply |
| Power Consumption: | 150mA |
| MTBF value at 35 °C: | 1'000'000 Hours. |
| Chip-set: | MAXIM MINDSPEED SEMTECH |
| Compliance: | CE Class 1 FDA and IEC60825-1 Laser Safety Compliant RoHS INF-8074i SFP MSA |



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.

