

## Key Highlights:

- **Type:** SFP
- **Tx Wavelength:** Ch. 17 to Ch. 61 (1563.86 nm – 1528.77 nm)
- **Rx Wavelength:** ITU-T DWDM Grid 100 GHz C-B and
- **Media Type:** Single- Mode Fiber
- **Fiber Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 15 dB
- **Max. Distance:** 40 km
- **Data Rate:** 100Mbps-2.67Gbps
- **Temperature:** Standard 0°-70°C



## Optical Transceiver : DWDM-2.67G-SFP-40-XX

### Product Description:

DWDM-2.67G-SFP-40-XX 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 15 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. 17 to Ch. 61 (1563.86 nm – 1528.77 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-2.67G-SFP-40-XX operates in Standard 0°-70°C temperature range and has Double LC interface. SFP support 100-2.67Gbps data rate and such applications as STM-16 (2.488 Gbps)|STM-4 (622Mbps)|STM-1 (155Mbps)|100M Ethernet (100Mbps)|Gigabit Ethernet (1.25 Gbps)|1G Fiber Channel (1.0625 Gbps)|2G Fiber Channel (2.125 Gbps)|OTU1 (2.66Gbps)|ODU0 (1.244Gbps)|ODU1 (2.498Gbps)|CPRI option 3 (2.458 Gbps)|CPRI option 2 (1228.8 Mbps)|CPRI option 1 (614.4 Mbps)|OBSAI RP3 x 2 (1.536 Gbps)|OBSAI RP3 x 1 (768 Mbps).



DWDM-2.67G-SFP-40-XX 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 SDH/SONET Links of Backbone, LTE 4G RRU and BBU Interconnections in C-RAN Frounhaul, Different Ethernet and Fiber Channel SAN Links in Enterprise Networks and other optical links.

Transceiver is CE/RoHS certified and it is Compliant with product safety standards. DWDM-2.67G-SFP-40-XX 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 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. 17 to Ch. 61 (1563.86 nm - 1528.77 nm)  |
| RX Wavelength:                | ITU-T DWDM Grid 100 GHz C-Band  |
| Minimum Optical Budget:       | 15 dB   |
| Maximum Distance:             | 40 km   |
| Supported Data Rate:          | 100 Mbps-2.67Gbps   |
| Supported Applications:       | STM-16 (2.488 Gbps) STM-4 (622Mbps) STM-1 (155Mbps) 100M Ethernet (100Mbps) Gigabit Ethernet (1.25 Gbps) 1G Fiber Channel (1.0625 Gbps) 2G Fiber Channel (2.125 Gbps) OTU1 (2.66Gbps) ODU0 (1.244Gbps) ODU1 (2.498Gbps) CPRI option 3 (2.458 Gbps) CPRI option 2 (1228.8 Mbps) CPRI option 1 (614.4 Mbps) OBSAI RP3 x 2 (1.536 Gbps) OBSAI RP3 x 1 (768 Mbps) |
| DDM/DOM:                      | Supported   |
| Temperature Range:            | Standard 0°-70°C  |
| Power Supply Voltage Typical: | +3.3V single power supply   |
| Compliance:                   | SFP MSA, SFF-8472, RoHS, CE, Class 1 FDA and IEC60825-1 Laser Safety Compliant  |



## Product Specification:

| Transmitter Parameters:     | Value          |
|-----------------------------|----------------|
| Transmitter Type:           | DFB Laser      |
| Tx Wavelength Bandwidth:    | 100GHz (0.8nm) |
| Minimum Transmitting Power: | -5 dBm         |
| Maximum Transmitting Power: | 0 dBm          |

| Receiver Parameters:     | Value                           |
|--------------------------|---------------------------------|
| Receiver Type:           | PIN Photodiode                  |
| Rx Wavelength Bandwidth: | 1260 - 1620 nm                  |
| Receiver Sensitivity:    | -20 / -24 dB Based on Data Rate |
| Receiver Overload:       | -3 dBm                          |



## Compatibility:

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more than 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  |
|-----------------------|----------------------|--------------|-------------------|--|
| DWDM-2.67G-SFP-40-XX* | 100Mbps-<br>2.67Gbps | Up to 40 km  | 0°-70°C           | <b>17 to 61</b><br>ITU-T 100Ghz C-Band 1563.86nm<br>to 1528.77nm |

\*XX represents the chosen channel, thus Ch.17 would be DWDM-2.67G-SFP-40-17 (1563.86nm, 191.7Thz)

