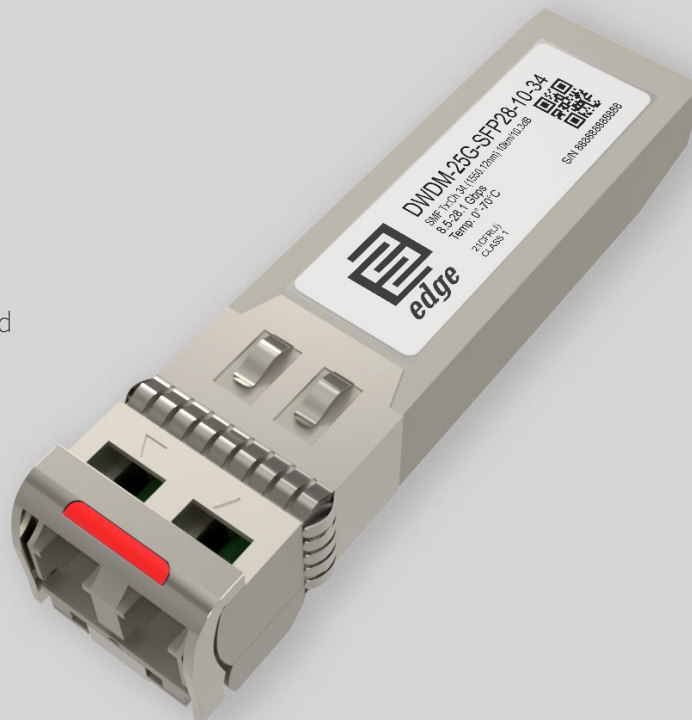


Key Highlights:

- **Type:** SFP28
- **Compatibility:** Multi-Vendor MSA Compatible
- **Tx Wavelength:** Ch 34 (1550.12 nm)
- **Rx Wavelength:** ITU-T DWDM Grid 100 GHz C-Band
- **Transmitter Type:** EML Laser
- **Media Type:** Single-Mode Fiber (SMF)
- **Connectors:** Double LC
- **Optical Budget:** 10.3 dB
- **Max. Distance:** 10km
- **Data Rate:** 8.5-28.1 Gbps
- **DDM/DOM:** Supported
- **Power Consumption:** <1.8W
- **Temperature:** Standard 0°-70°C



Optical Transceiver: DWDM-25G-SFP28-10-34

Product Description:

DWDM-25G-SFP28-10-34 is a DWDM Channel 34 (1550.12 nm) 25GBASE-LR Multi-Vendor MSA Compatible SFP28 (Small Form-Factor Pluggable 28) Transceiver, operating over Double Fiber Single-Mode Fiber (SMF) optical cable. It has minimum guaranteed optical budget of 10.3 dB, which in most cases is enough to reach 10 km over OS2 fiber. However, distance is just indicative parameter for comfort of identification that is calculated by taking into account minimal optical budget and average attenuation of optical cabling in industry. DWDM-25G-SFP28-10-34 uses top quality DFB (Distributed Feedback Laser) transmitter and 25Gb/s PIN photodiode receiver. DWDM-25G-SFP28-10-34 DWDM Channel 34 (1550.12 nm) 25GBASE-LR supports DDM/DOM optical diagnostics that provide real-time diagnostic information about the present operating conditions. DWDM-25G-SFP28-10-34 operates in Standard 0°-70°C temperature range and has Double LC interface. DWDM-25G-SFP28-10-34 DWDM Channel 34 (1550.12 nm) 25GBASE-LR SFP28 support 8.5-28.1 Gbps data rate and is designed for 25G Ethernet (25.78 Gbps) and 10G Ethernet (10.31 Gbps) applications. DWDM-25G-SFP28-10-34 SFP28 Double Fiber optical transceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular use cases are in Internet Service Provider (ISP) Access and Metro Networks Data Center Core Networks and Enterprise Campus Networks.

DWDM-25G-SFP28-10-34 DWDM Channel 34 (1550.12 nm) 25GBASE-LR SFP28 transceiver is CE/RoHS certified and is compliant with product safety standards. DWDM-25G-SFP28-10-34 is fully compliant to SFF-8431 and SFF-8472 Multi Source Agreement (MSA), IEEE 802.3by 25 Gb/s specification. Consequently, compliance to above standards guarantees that module is compatible and works with majority of networking equipment, where is not implemented special algorithm for protection against third party modules. However - our technical team has accumulated deep expertise in custom-encoded firmwares for DWDM Channel 34 (1550.12 nm) 25GBASE-LR SFP28 transceiver in order to make it work in almost any brand equipment. We will be glad to know your requirements.



Product Specification:

| General Parameter | Value |
|---------------------------------------|---|
| Media Type: | Single-Mode Fiber (SMF) |
| Connectors: | Double LC |
| Tx Wavelength: | Ch 34 (1550.12 nm) |
| Rx Wavelength: | ITU-T DWDM Grid 100 GHz C-Band |
| Minimum Optical Budget: | 10.3 dB |
| Maximum Distance: | 10km |
| Supported Data Rate: | 8.5-28.1 Gbps |
| Supported Applications: | 25G Ethernet (25.78 Gbps), 10G Ethernet (10.31 Gbps) |
| Modulation Format: | NRZ |
| DDM/DOM: | Supported |
| CDR (Clock and Data Recovery): | Supported |
| Operating Temperature Range: | Standard 0°-70°C |
| Storage Temperature Range: | -40° to 85°C |
| Relative Humidity (Non-Condensation): | 0 to 85% |
| Power Consumption: | <1.8W |
| Power Supply Voltage Typical: | +3.3V single power supply |
| Power Supply Voltage Range: | 3.14 to 3.46V |
| Supply Current (Max): | 500 mA |
| Chipset: | Macom, Oclaro, Renesas Electronics, II-VI, Neo, Maxim, Sumitomo, Semtech |
| Compliance: | SFP+ MSA, SFF-8402, SFF-8472, SFF-8431, SFF-8432, CE, RoHS-6, Class 1 FDA and IEC60825-1 Laser Safety Compliant |
| MTBF value at 35 °C: | 1'000'000 Hours. |

| Transmitter Parameters | Value |
|------------------------------|----------------|
| Transmitter Type: | EML Laser |
| Tx Wavelength Bandwidth: | 100GHz (0.8nm) |
| Average Optical Power (Min): | -1 dBm |
| Average Optical Power (Max): | 5 dBm |
| Spectral Width (RMS) (Max): | 0.4nm |
| Extinction Ratio (Min): | 4 dB |
| Relative Intensity Noise: | -130 dB/Hz |



| Transmitter Parameters | Value |
|--------------------------------------|------------|
| Input differential impedance (Max): | 100 Ohm |
| Single ended data input swing (Min): | 180 mV |
| Single ended data input swing (Max): | 700 mV |
| Transmit Disable Voltage (Min): | 2 V |
| Transmit Disable Voltage (Max): | Vcc V |
| Transmit Enable Voltage (Min): | Vee V |
| Transmit Enable Voltage (Max): | Vee+ 0.8 V |

| Receiver Parameters | Value |
|---------------------------------------|--------------------------------|
| Receiver Type: | PIN photodiode |
| Rx Wavelength Bandwidth: | ITU-T DWDM Grid 100 GHz C-Band |
| Receiver Sensitivity (Max): | -11.3 dBm |
| Receiver Overload: | 0.5 dBm |
| LOS Assert (Min): | -30 dBm |
| LOS De-Assert (Max): | -17 dBm |
| LOS Hysteresis (Min): | 0.5 dB |
| Differential data output swing (Min): | 400 mV |
| Differential data output swing (Max): | 800 mV |
| LOS Fault (Max): | 2 V |
| LOS Normal (Min): | VccHOST V |
| LOS Normal (Max): | Vee V |



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. Warranty does not cover damage caused by improper deployment, misuse and accidents.

