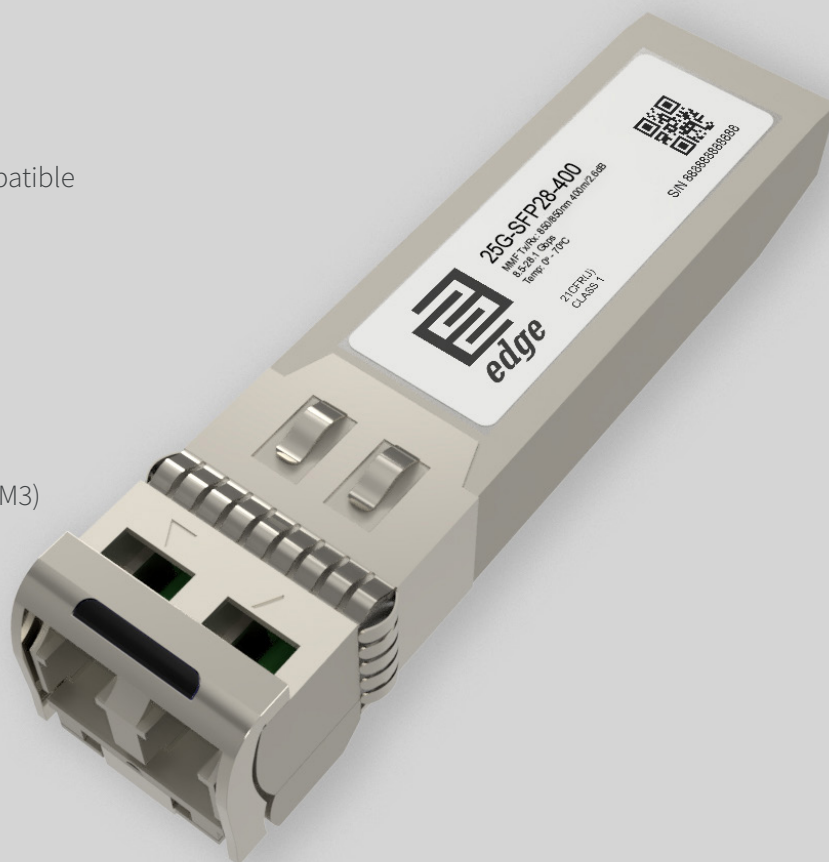# edge
OPTICAL SOLUTIONS

Product Data Sheet

Key Highlights:

- **Type**: SFP28
- **Compatibility**: Multi-Vendor MSA Compatible
- **Tx Wavelength:** 850 nm
- **Rx Wavelength**: 850 nm
- **Transmitter Type:** VSCEL Laser
- **Media Type:** Multi-Mode Fiber (MMF)
- **Connectors:** Double LC
- **Optical Budget:** 2.7 dB
- **Max. Distance:** 400 m (OM4) / 300 m (OM3)
- **Data Rate:** 8.5-28.1 Gbps
- **DDM/DOM:** Supported
- **Power Consumption:** <1W
- **Temperature:** Standard 0°-70°C

Optical Transceiver : 25G-SFP28-400

Product Description:

25G-SFP28-400 is a 25GBASE-SR Multi-Vendor MSA Compatible SFP28 (Small Form-Factor Pluggable 28) Transceiver, operating over Double Fiber Multi-Mode Fiber (MMF) optical cable. It has a minimum guaranteed optical budget of 2.7 dB, which in most cases is enough to reach 400 m over OM4 multimode fiber, or 300 m over OM3 multimode fiber. However, distance is just an indicative parameter for comfort of identification that is calculated by taking into account minimal optical budget and average attenuation of optical cabling in industry. 25G-SFP28-400 uses top quality VSCEL (Vertical Cavity Surface Emitting Laser) transmitter and 25Gb/s PIN photodiode receiver. 25G-SFP28-400 25GBASE-SR supports DDM/DOM optical diagnostics that provide real-time diagnostic information about the present operating conditions. 25G-SFP28-400 operates in Standard 0°-70°C temperature range and has a Double LC interface. 25G-SFP28-400 25GBASE-SR SFP28 supports 8.5-28.1 Gbps data rate and is designed for 25G Ethernet (25.78 Gbps) and 10G Ethernet (10.31 Gbps) applications. 25G-SFP28-400 SFP28 Double Fiber optical transceiver is a multi-purpose module used in a number of different places in today's networking. Consequently, most popular use cases are in Internet Service Provider (ISP) Access and Metro Networks Data Center Core

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Product Data Sheet

Networks and Enterprise Campus Networks.

25G-SFP28-400 25GBASE-SR SFP28 transceiver is CE/RoHS certified and is compliant with product safety standards. 25G-SFP28-400 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 firmware for the 25GBASE-SR SFP28 transceiver in order to make it work in almost any brand equipment. We will be glad to know your requirements.
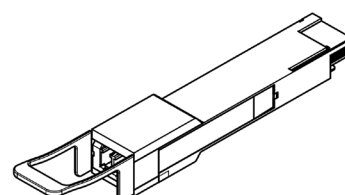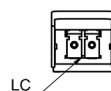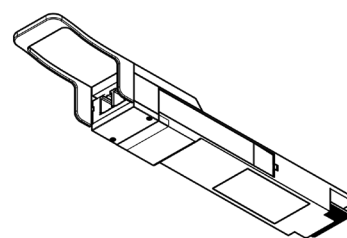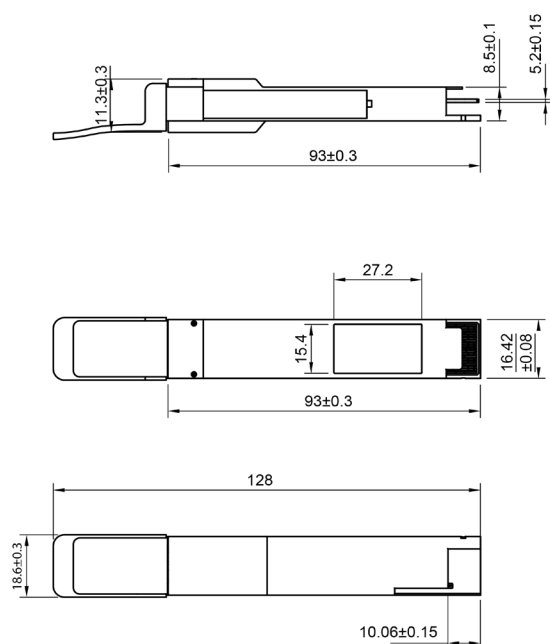
Product Specification:

General parameter	Value
Media Type:	Multi-Mode Fiber (MMF)
Connectors:	Double LC
TX Wavelength:	850 nm
RX Wavelength:	850 nm
Minimum Optical Budget:	2.7 dB
Maximum Distance:	400 m (OM4) / 300 m (OM3)
Supported Data Rate:	8.5-28.1 Gbps
Supported Applications:	25G Ethernet (25.78 Gbps), 10G Ethernet (10.31 Gbps)
Modulation Format:	NRZ
Optical Clock And Data Recovery (CDR):	Supported
DDM/DOM:	Supported
Operating Temperature Range:	Standard 0°-70°C
Storage Temperature Range:	-40° to 85°C
Relative Humidity (Non-Condensation):	0 to 85%
Power Consumption:	<1W
Power:	+3.3V single power supply
Compliance:	SFP+ MSA, SFF-8402, SFF-8472, SFF-8431, SFF-8432, IEEE 802.3by, CE, RoHS-6, Class 1 FDA and IEC60825-1 Laser Safety Compliant

Product Data Sheet

Transmitter Parameters:	Value
Transmitter Type:	VSCEL Laser
Tx Wavelength Bandwidth:	20 nm (840-860 nm)
Minimum Transmitting Power:	-8.4 dBm
Maximum Transmitting Power:	2.4 dBm

Receiver Parameters:	Value
Receiver Type:	PIN photodiode
Rx Wavelength Bandwidth:	20 nm (840-860 nm)
Receiver Sensitivity:	-11 dBm
Receiver Overload:	2.4 dBm
LOS Assert (min)	-30 dBm
LOS Deassert (max)	-13 dBm
LOS Hysteresis(min)	0.5 dB

Mechanical Drawings

edge
OPTICAL SOLUTIONS

Product Data Sheet

Compatibility:

EDGE Optical transceivers can be provided with custom-encoded firmware, in order to provide compatibility with more then 100 vendor brands in data and telecom communications industry:

MS - General MSA	**DZ** - DZS(Dasan-Zhone)	**KY** - KyLand	**SV** - Sandvine
AD - ADVA	**EI** - ECI	**LN** - Lenovo	**SC** - Silicom
AE - Advantech	**EC** - EdgeCore	**ML** - Mellanox	**SF** - SolarFlare
AL - Alcatel (Nokia)	**EW** - EdgeWare	**ME** - Meraki (Cisco)	**SW** - Sonicwall
AT - Allied Telesis	**EL** - Eltex	**MT** - MikroTik	**SM** - Supermicro
AR - Arista	**EM** - EMC2	**MO** - Moxa	**SY** - Synology
AS - Arris	**EN** - Enterasys	**MR** - MRV	**TC** - Telco Systems
AV - Avaya	**ER** - Ericsson	**NC** - NEC	**TP** - TP-LINK
BC - Barracuda	**EF** - EXFO	**NG** - Netgear	**TN** - Trendnet
BR - Broadcom	**EX** - Extreme Networks	**NK** - Nokia	**UN** - Ubiquiti Networks
QL - Cavium (Qlogic)	**F5** - F5 Networks	**NT** - Nortel	**VX** - VeEx
CR- Ceragon	**FI** - Finisar	**NS** - NSN	**WG** - WatchGuard
CP - Checkpoint	**FO** - Fortinet	**OR** - Oracle	**WS** - Waystream
CH - Chelsio	**FU** - Fujitsu	**PA** - Palo Alto Network	**WT** - Westermo
CN - Ciena	**H3** - H3C	**PL** - Planet	**ZT** - ZTE
CI - Cisco	**HI** - Hirschmann	**QC** - QCT(Quanta)	**ZX** - Zyxel
LI - Cisco (Linksys)	**HU** - Huawei	**QN** - QNAP	**HP** - HP
CE - Comnet	**IB** - IBM	**RD** - RAD	**AG** - Avago
CO - Coriant	**IF** - Infinera	**RW** - RadWare	**OC** - Oclaro
DH - Dahua	**IN** - Intel	**RC** - Raisecom	**EU** - Emulex
DC - DCN	**IX** - Ixia	**RK** - Ruckus	**TM** - Transmode
DL - Dell & Force10	**JU** - Juniper Networks	**RU** - Ruijie Networks	**AU** - HP Aruba
DK - D-Link	**KM** - KeyMile	**SG** - Samsung	**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.