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Product Data Sheet

Key Highlights:

- **Type**: SFP28
- **Tx Wavelength:** Ch. 17 to Ch. 61 (1563.86 nm - 1528.77 nm)
- **Rx Wavelength:** ITU-T DWDM Grid 100 GHz C-Band
- **Media Type:** Single-Mode Fiber (SMF)
- **Fiber Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 10.3 dB
- **Max. Distance:** 10km
- **Data Rate:** 8.5-28.1 Gbps
- **Temperature:** Industrial -45°C – +85°C

Optical Transceiver : DWDM-25G-SFP28-10I-XX

Product Description:

DWDM-25G-SFP28-10I-XX is a DWDM Ch. 17 to Ch. 61 (1563.86 nm - 1528.77 nm) 25GBASE-LR Industrial Multi-Vendor MSA Compatible SFP28 (Small Form-Factor Pluggable 28) Transceiver, operating over Double Fiber Single-Mode Fiber (SMF) optical cable. It has min-imum 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 min-imal optical budget and aver-age attenuation of optical cabling in industry. DWDM-25G-SFP28-10I-XX uses top quality DFB (Distributed Feedback Laser) trans-mitter and 25Gb/s PIN photodiode receiver. DWDM-25G-SFP28-10I-XX DWDM Ch. 17 to Ch. 61 (1563.86 nm - 1528.77 nm) 25GBASE-LR Industri-al supports DDM/DOM optical diagnostics that provide real-time di-agnostic information about the present operating conditions. DWDM-25G-SFP28-10I-XX operates in Industrial -45°C – +85°C temperature range and has Double LC interface. DWDM-25G-SFP28-10I-XX DWDM Ch. 17 to Ch. 61 (1563.86 nm - 1528.77 nm) 25GBASE-LR Industrial 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.

EDGE Technologies Ltd.
Plienciema Street 33, Marupe
Latvia, LV-2167
sales@edgeoptic.com
www.edgeoptic.com

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DWDM-25G-SFP28-10I-XX SFP28 Double Fiber optical trans-ceiver is multi-purpose module used in number of different places of today's networking. Consequently, most popular use cas-es are in Internet Service Provider (ISP) Access and Metro Networks Data Center Core Networks and Enterprise Campus Networks.

DWDM-25G-SFP28-10I-XX DWDM DWDM Ch. 17 to Ch. 61 (1563.86 nm - 1528.77 nm) 25GBASE-LR Industrial SFP28 transceiver is CE/RoHS certified and is compliant with product safety standards. DWDM-25G-SFP28-10I-XX is fully compliant to SFF-8431 and SFF-8472 Multi Source Agree-ment (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 mod-ules. However - our technical team has accumulated deep expertise in custom-encoded firmware's for DWDM Channel 17 (1563.86 nm) 2Cwork in almost any brand equipment. We will be glad to know your require-ments.

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:	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)
DDM/DOM:	Supported
Temperature Range:	Industrial -45°C – +85°C
Power Supply Voltage Typical:	+3.3V single power supply
Compliance:	SFP+ MSA, SFF-8402, SFF-8472, SFF-8431, SFF-8432, CE, RoHS 6, Class 1 FDA and IEC60825-1 Laser Safety Compliant

Product Data Sheet

Product Specification:

Transmitter Parameters:	Value
Transmitter Type:	EML Laser
Tx Wavelength Bandwidth:	100GHz (0.8nm)
Minimum Transmitting Power:	-1 dBm
Maximum Transmitting Power:	5 dBm

Receiver Parameters:	Value
Receiver Type:	PIN Photodiode
Rx Wavelength Bandwidth:	ITU-T DWDM Grid 100 GHz C-Band
Receiver Sensitivity:	-11.3 dBm
Receiver Overload:	0.5 dBm

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.

▌ Ordering Information:

Part Number	Data Rate	Applications	Temperature Range	Available DWDM Channels
DWDM-25G-SFP28-10I-XX*	8.5-28.1 Gbps	Up to 10 km	-45°C – +85°C	**17 to 61** ITU-T 100Ghz C-Band 1563.86nm to 1528.77nm

*XX represents the chosen channel, thus Ch.17 would be DWDM-25G-SFP28-10I-XX (1563.86nm, 191.7Thz)