

## Key Highlights:

- **Type:** SFP28
- **Tx Wavelength:** Ch. 27 - Ch. 61 (1270nm - 1610nm)
- **Rx Wavelength:** G.694.2 CWDM Grid (1270-1610nm)
- **Media Type:** Single-Mode Fiber (SMF)
- **Fiber Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 6.3 dB
- **Max. Distance:** 10km
- **Data Rate:** 8.5-28.1 Gbps
- **Temperature:** Standard 0°-70°C



## Optical Transceiver : CWDM-25G-SFP28-10-XX

### Product Description:

CWDM-25G-SFP28-10-XX is a Ch. 27 - Ch. 61 (1270nm - 1610nm) CWDM 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 6.3 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. CWDM-25G-SFP28-10-XX uses top quality DFB (Distributed Feedback Laser) transmitter and 25Gb/s PIN photodiode receiver. CWDM-25G-SFP28-10-XX Ch. 27 - Ch. 61 (1270nm - 1610nm) CWDM 25GBASE-LR supports DDM/DOM optical diagnostics that provide real-time diagnostic information about the present operating conditions. CWDM-25G-SFP28-10-XX operates in Standard 0°-70°C temperature range and has Double LC interface. CWDM-25G-SFP28-10-XX Ch. 27 - Ch. 61 (1270nm - 1610nm) CWDM 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.



CWDM-25G-SFP28-10-XX 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.

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## Product Specification:

General parameter	Value
Media Type:	Single-Mode Fiber (SMF)
Connectors:	Double LC
TX Wavelength:	Ch. 27 - Ch. 61 (1270nm - 1610nm)
RX Wavelength:	G.694.2 CWDM Grid (1270nm - 1610nm)
Minimum Optical Budget:	6.3 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:	Standard 0°-70°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 Specification:

Transmitter Parameters:	Value
Transmitter Type:	DFB Laser
Tx Wavelength Bandwidth:	20nm (1270-1610nm)
Minimum Transmitting Power:	-7 dBm
Maximum Transmitting Power:	2 dBm

Receiver Parameters:	Value
Receiver Type:	PIN Photodiode
Rx Wavelength Bandwidth:	G.694.2 CWDM Grid (1270-1610nm)
Receiver Sensitivity:	-13.3 dBm
Receiver Overload:	2.2 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
CWDM-25G-SFP28-10-XX*	8.5-28.1 Gbps	Up to 10 km	0°-70°C	<b>27 to 61</b> ITU-T 100Ghz C-Band 1563.86nm to 1528.77nm

\*XX represents the chosen channel, thus Ch.27 would be CWDM-25G-SFP28-10-27 (1563.86nm)

