

Key Highlights:

- **Type:** SFP28
- **Tx Wavelength:** Ch. 269 - Ch. 318 (1269.23nm - 1318.35nm)
- **Rx Wavelength:** 1260-1360 nm
- **Media Type:** Single- Mode Fiber
- **Fiber Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 20 dB
- **Max. Distance:** 20km
- **Data Rate:** 8.5-28.1 Gbps
- **Temperature:** Industrial -45°C – +85°C



Optical Transceiver : LWDM-25G-SFP28-20I-XX

Product Description:

LWDM-25G-SFP28-20I-XX is a LAN WDM Ch. 269 – Ch. 318 (1269.23nm – 1318.35nm) 25GBASE-LR 20km Industrial 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 20dB, which in most cases is enough to reach 20 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. LWDM-25G-SFP28-20I-XX uses top quality DFB (Distributed Feedback Laser) transmitter and 25Gb/s PIN photodiode receiver. LWDM-25G-SFP28-20I-XX LWDM Ch. 269 – Ch. 318 (1269.23nm – 1318.35nm) 25GBASE-LR 20km Industrial supports DDM/DOM optical diagnostics that provide real-time diagnostic information about the present operating conditions. LWDM-25G-SFP28-20I-XX operates in Industrial -45°C – +85°C temperature range and has Double LC interface. LWDM-25G-SFP28-20I-XX LWDM Ch. 269 – Ch. 318 (1269.23nm – 1318.35nm) 25GBASE-LR 20km 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. LWDM-25G-SFP28-20I-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.

LWDM-25G-SFP28-20I-XX LWDM Ch. 269 – Ch. 318 (1269.23nm – 1318.35nm) 25GBASE-LR 20km Industrial SFP28 transceiver is CE/RoHS certified and is compliant with product safety standards. LWDM-25G-SFP28-20I-XX 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's for LWDM Ch. 269 – Ch. 318 (1269.23nm – 1318.35nm) 25GBASE-LR 20km Industrial 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. 269 - Ch. 318 (1269.23nm - 1318.35nm)
RX Wavelength:	(1260-1360 nm)
Minimum Optical Budget:	20 dB
Maximum Distance:	20km
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 Specification:

Transmitter Parameters:	Value
Transmitter Type:	DFB Laser
Tx Wavelength Bandwidth:	1.98nm (1268.24 - 1270.22 nm)
Minimum Transmitting Power:	1 dBm
Maximum Transmitting Power:	7 dBm

Receiver Parameters:	Value
Receiver Type:	PIN photodiode
Rx Wavelength Bandwidth:	100 nm (1260-1360 nm)
Receiver Sensitivity:	-19 dBm
Receiver Overload:	-4 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 LWDM Channels
LWDM-25G-SFP28-20I-XX*	8.5-28.1 Gbps	Up to 20 km	-45°C – +85°C	269 to 318 11260nm to 1360nm

*XX represents the chosen channel, thus Ch.269 would be LWDM-25G-SFP28-20I-269 (1269.23nm)

