

Key Highlights:

- **Type:** SFP28
- **Tx Wavelength:** Ch. 27 - Ch. 31 (1270nm - 1310nm)
- **Rx Wavelength:** G.694.2 CWDM Grid (1270 - 1610nm)
- **Media Type:** Single-Mode Fiber (SMF)
- **Fiber Type:** Single-Mode Fiber (SMF)
- **Optical Budget:** 19 dB
- **Max. Distance:** 40km (with FEC), 30km (no FEC)
- **Data Rate:** 8.5 - 28.1 Gbps
- **Temperature:** Standard 0°-70°C



Optical Transceiver : CWDM-25G-SFP28-41-XX

Product Description:

CWDM-25G-SFP28-41-XX is a Ch. 27 - Ch. 31 (1270nm - 1310nm) CWDM 25GBASE-ER Lite 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 19 dB, which in most cases is enough to reach 40 km over OS2 fiber with FEC (Forward Error Correction) function, or 30km without FEC. 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-SFP28-41-XX uses top quality DFB (Distributed Feedback Laser) transmitter and 25Gb/s APD receiver. CWDM-25G-SFP28-41-XX Ch. 27-Ch. 31 (1270nm-1310nm) CWDM 25GBASE-ER Lite supports DDM/DOM optical diagnostics that provide real-time diagnostic information about the present operating conditions. CWDM-25G-SFP28-41-XX operates in Standard 0°-70°C temperature range and has Double LC interface. CWDM-25G-SFP28-41-XX Ch. 27-Ch. 31 (1270nm - 1310nm) CWDM 25GBASE-ER Lite SFP28 support 8.5 - 28.1 Gbps data rate and is designed for 10G Ethernet (10.31 Gbps) and 25G Ethernet (25.78 Gbps) applications.



CWDM-25G-SFP28-41-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.

CWDM-25G-SFP28-41-XX Ch. 27 - Ch. 31 (1270nm - 1310nm) CWDM 25GBASE-ER Lite SFP28 transceiver is CE/RoHS certified and is compliant with product safety standards. CWDM-25G-SFP28-41-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 firmwares for Ch. 27 - Ch. 31 (1270nm - 1310nm) CWDM 25GBASE-ER Lite 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. 27 - Ch. 31 (1270nm - 1310nm)
RX Wavelength:	G.694.2 CWDM Grid (1270nm - 1310nm)
Minimum Optical Budget:	19 dB
Maximum Distance:	40km (with FEC), 30km (no FEC)
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 (1270nm - 1310nm)
Minimum Transmitting Power:	0 dBm
Maximum Transmitting Power:	6 dBm

Receiver Parameters:	Value
Receiver Type:	PIN Photodiode
Rx Wavelength Bandwidth:	G.694.2 CWDM Grid (1270nm - 1310nm)
Receiver Sensitivity:	-19 dBm
Receiver Overload:	-6 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-SFP28-41-XX*	8.5-28.1 Gbps	Up to 40 km	0°-70°C	27 to 31 ITU-T 100Ghz C-Band 1563.86nm to 1528.77nm

*XX represents the chosen channel, thus Ch.27 would be CWDM-25G-SFP28-41-27 (1563.86nm)

