QSFP28 O-Band DWDM

100G Ethernet Transceiver

DESCRIPTION

The QSFP28 O-Band DWDM transceiver is a 100 Gbit/s pluggable module for 100GBASE Ethernet bi-directional serial optical data communications. The transceiver operates with one PAM4 modulated signal and is available in DWDM wavelengths in O-band ranging from 1295.56 nm to 1312.58 nm.

The module is fully compliant with QSFP28 related MSA standards described in SFF-8665 and Digital Diagnostic functions are available through an I2C interface. QSFP28 Single Lambda complies with IEEE 802.3 and 100Gbase Ethernet.

APPLICATIONS

- 100GBASE DWDM

FEATURES

- Up to 25 km or 40 km transmission on singlemode fiber
- Hot-Pluggable QSFP28 footprint
- Duplex LC Optical interface
- QSFP28 MSA compatible
- Digital Diagnostics Monitoring interface
- Single 3.3 V power supply
- Power dissipation < 5.5 W
- RoHS-6 compliant (lead-free)
- Case operating temperature: 0°C to 70°C

LASER SAFETY

This transceiver is a Class 1 laser product. It complies with IEC-60825 and FDA 21 CFR 1040.10 and 1040.11. The transceiver must be operated within the specified temperature and voltage limits. The optical ports of the module need to be terminated with an optical connector or a dust plug.

OPTICAL PARAMETERS

Part no.	SM/MM Fiber	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
QSFP28-L25-DOxxx	SM	O-Band	0 to 5.5	-15 to -2.5	15
QSFP28-L40-DOxxx	SM	O-Band	2 to 7	-16 to -3	18

ORDERING INFORMATION

Part no.	Description
QSFP28-L25-DOxxx	QSFP28, 100GBASE, Single Lambda O-Band DWDM, 25km, 15dB, SM
QSFP28-L40-DOxxx	QSFP28, 100GBASE, Single Lambda O-Band DWDM, 40km, 18dB, SM

-DO314 = DWDM 1295.56 nm
-DO312 = DWDM 1296.68 nm
-DO310 = DWDM 1297.80 nm
-DO308 = DWDM 1298.93 nm
-DO306 = DWDM 1300.05 nm
-DO304 = DWDM 1301.18 nm
-DO302 = DWDM 1302.31 nm
-DO300 = DWDM 1303.45 nm
-DO298 = DWDM 1304.58 nm
-DO296 = DWDM 1305.72 nm
-DO294 = DWDM 1306.85 nm
-DO292 = DWDM 1308.00 nm
-DO290 = DWDM 1309.14 nm
-DO288 = DWDM 1310.28 nm
-DO286 = DWDM 1311.43 nm
-DO284 = DWDM 1312.58 nm