

QSFP28 Single Lambda

100G Ethernet LR4 Transceiver

DESCRIPTION

The QSFP28 Single Lambda transceiver is a 100 Gbit/s pluggable module for bi-directional serial optical data communications such as 100GBASE Ethernet. The transceiver operates with one PAM4 modulated signal and is available in four CWDM wavelengths of 1271 nm, 1291 nm, 1311 nm and 1331 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-LR4.

APPLICATIONS

- 100GBASE-LR4

FEATURES

- Up to 10 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 < 4.5 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-LR-SL-Cxx	SM	1271-1331 nm	-0.5 to 5	-8.5 to 5	8

Optical power values are per channel

ORDERING INFORMATION

Part no.	Description
QSFP28-LR-SL-Cxx	QSFP28, 100GBASE-LR, Single Lambda CWDM, 10km, 8dB, SM

- C27 = CWDM 1271 nm
- C29 = CWDM 1291 nm
- C31 = CWDM 1311 nm
- C33 = CWDM 1331 nm