

# QSFP+ 40G ZR4

## 40G Ethernet ZR4 Transceiver

### DESCRIPTION

The QSFP+ 40G ZR4 transceiver is a 40 Gbit/s pluggable module for bi-directional serial optical data communications such as 40GBASE Ethernet and 10GBASE Ethernet. The transceiver operates with four parallel data streams of 10.3125 Gbps in order to provide an aggregate signal rate of 41.25 Gbps. The four lanes are launched with center wavelengths of 1295.56 nm, 1300.05 nm, 1304.58 nm and 1309.14 nm and multiplexed onto singlemode fiber. On the receive side, the four lanes of optical data streams are de-multiplexed by the transceiver and retimed.

The module is fully compliant with QSFP+ related MSA's described in SFF-8665 and Digital Diagnostic functions are available through an I2C interface. QSFP-40G-ZR4 complies with IEEE 802.3.

### APPLICATIONS

- 40GBASE-ZR4

### FEATURES

- Up to 80 km transmission on singlemode fiber
- Hot-Pluggable QSFP+ footprint
- Duplex LC Optical interface
- QSFP+ 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]
QSFP-40G-ZR4	SM	1296-1309 nm	2 to 4.5	-25 to -8	27

Optical power values are per channel

### ORDERING INFORMATION

Part no.	Description
QSFP-40G-ZR4	QSFP+, 40Gbase-ZR4, 4x10.3Gbps, 1310nm, DDM, 80km, 27dB, SM