

# QSFP-DD LR4

## 400G Ethernet LR4 Transceiver

### DESCRIPTION

The QSFP-DD LR4 transceiver is a 400 Gbit/s pluggable module for optical data communications such as 400GBASE Ethernet. The transceiver operates with four parallel data streams of 106,25 Gbps in order to provide an aggregated signaling rate of 425 Gbps. The four lanes are launched with center wavelengths of 1271 nm, 1291 nm, 1311 nm and 1331 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 all QSFP-DD related MSA standards and Digital Diagnostic functions are available through an I2C interface. Q-DD-400G-LR4 complies with IEEE 802.3 and 400Gbase-LR4.

### APPLICATIONS

- 400GBASE-LR4
- Data center

### FEATURES

- Up to 10 km transmission on singlemode fiber
- Hot-Pluggable QSFP-DD footprint
- Duplex LC interface for fiber pair operation
- QSFP-DD MSA compatible
- CWDM wavelengths 1271, 1291, 1311 and 1331 nm
- Digital Diagnostic monitoring interface
- Operating Case Temperature: Standard: 0°C to 70°C
- Power dissipation < 12 W



### 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.	Fiber type	Wavelength [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
QDD-400G-LR4	SM	1271-1331	-2.5 to 5.5	-9 to 5.5	6.5

### ORDERING INFORMATION

Part no.	Description
QDD-400G-LR4	QSFP-DD, 400G Ethernet, 1271-1331nm, SM, DDM, 6.5dB, 10km