

QSFP-DD LR8

400G Ethernet LR8 Transceiver

DESCRIPTION

The QSFP-DD LR8 transceiver is a 400 Gbit/s pluggable module for optical data communications such as 400GBASE Ethernet. The transceiver operates with eight parallel data streams of 53.125Gbps in order to provide an aggregated signaling rate of 425 Gbps. The eight lanes are launched with center wavelengths of 1273nm, 1277nm, 1282nm, 1286nm, 1295nm, 1300nm, 1304nm and 1309nm and multiplexed onto singlemode fiber. On the receive side, the eight 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. QDD-400G-LR8 complies with IEEE 802.3bs 400Gbase-LR8.

APPLICATIONS

- 400GBASE-LR8
- Data center
- Telecom

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
- LAN-WDM wavelengths 1273, 1277, 1282, 1286, 1295, 1300, 1304, 1309nm
- Digital Diagnostic monitoring interface
- Operating Case Temperature: Standard: 0°C to 70°C
- Power dissipation < 14,5 W



FIBERWORKS

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-LR8	SM	1273-1309	-3 to 5	-9 to 5	6

ORDERING INFORMATION

Part no.	Description
QDD-400G-LR8	QSFP-DD, 400G Ethernet, 1273-1309nm, SM, DDM, 6dB, 10km