QSFP-DD 4xLR1
400G Ethernet DR4 Transceiver

DESCRIPTION

The QSFP-DD 4xLR1 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 module has a MPO8 male connector and uses four fiber pairs to create the four data lanes. Each lane operates at 1310nm and is interoperable with 100GBASE-LR1 transceivers. Hence the QSFP-DD 4xLR1 can easily be used for breakout of 400G to 4x 100G.
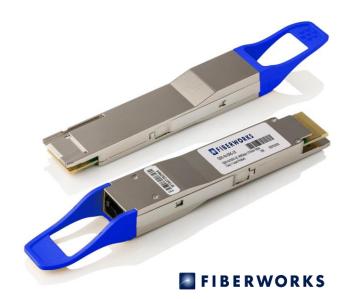
The module is fully compliant with all QSFP-DD related MSA standards and Digital Diagnostic functions are available through an I2C interface. QDD-4x100G-LR complies with IEEE 802.3 and 100Gbase-LR.

APPLICATIONS
• 400GBASE
• 100GBASE-LR
• Data center

FEATURES
• Up to 10 km transmission on singlemode fiber
• Hot-Pluggable QSFP-DD footprint
• MPO8 Optical interface
• QSFP-DD MSA compatible
• 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-4x100G-LR	SM	1310	-1.5 to 4.5	-7.5 to 4.5	6

ORDERING INFORMATION

Part no.	Description
QDD-4x100G-LR	QSFP-DD, 400G Ethernet, 1310nm, SM, DDM, 6dB, 10km

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