

QSFP28 BiDi

100G Ethernet QSFP28 for single SM fiber

DESCRIPTION

The QSFP28 BiDi transceivers are 100 Gbit/s pluggable modules for data communications such as 100GBASE Ethernet on one single mode fiber. The transceivers operates with one PAM4 data stream up to 106.25 Gbps, using different wavelengths in each direction.

The module is fully compliant with QSFP28 related MSA's described in SFF-8665 and Digital Diagnostic functions are available through an I2C interface. QSFP28 BiDi transceivers complies with IEEE 802.3.

APPLICATIONS

- 100GBASE
- Data center

FEATURES

- Up to 10, 20, 30 or 40 km transmission on one singlemode fiber
- Hot-Pluggable QSFP footprint
- Simplex LC interface for single fiber operation
- QSFP28 MSA compatible
- Digital Diagnostic monitoring interface
- Operating Case Temperature: Standard: 0°C to 70°C
- Power dissipation < 4.5 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] TX / RX	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
QSFP28-BX10-23	SM	1271/1331	-1.5 to 4.5	-7.5 to 4.5	6
QSFP28-BX10-32	SM	1331/1271	-1.5 to 4.5	-7.5 to 4.5	6
QSFP28-BX20-23	SM	1291/1311	0 to 6.5	-10 to 6.5	10
QSFP28-BX20-32	SM	1311/1291	0 to 6.5	-10 to 6.5	10
QSFP28-BX30-L9L10	SM	1304.58/1309.14	0 to 5.5	-14 to 3.5	14
QSFP28-BX30-L10L9	SM	1309.14/1304.58	0 to 5.5	-14 to 3.5	14
QSFP28-BX40-L9L10	SM	1304.58/1309.14	1.5 to 7	-16.5 to -3.5	18
QSFP28-BX40-L10L9	SM	1309.14/1304.58	1.5 to 7	-16.5 to -3.5	18

ORDERING INFORMATION

Part no.	Description
QSFP28-BX10-23	QSFP28, BiDi, 100GBASE, 10 km, Tx 1271nm/Rx 1331nm, 6dB, SM
QSFP28-BX10-32	QSFP28, BiDi, 100GBASE, 10 km, Tx 1331nm/Rx 1271nm, 6dB, SM
QSFP28-BX20-23	QSFP28, BiDi, 100GBASE, 20 km, Tx 1291nm/Rx 1311nm, 10dB, SM
QSFP28-BX20-32	QSFP28, BiDi, 100GBASE, 20 km, Tx 1311nm/Rx 1291nm, 10dB, SM
QSFP28-BX30-L9L10	QSFP28, BiDi, 100GBASE, 30 km, Tx 1304.58nm/Rx1309.14nm, 14dB, SM
QSFP28-BX30-L10L9	QSFP28, BiDi, 100GBASE, 30 km, Tx 1309.14nm/Rx1304.58nm, 14dB, SM
QSFP28-BX40-L9L10	QSFP28, BiDi, 100GBASE, 40 km, Tx 1304.58nm/Rx1309.14nm, 18dB, SM
QSFP28-BX40-L10L9	QSFP28, BiDi, 100GBASE, 40 km, Tx 1309.14nm/Rx1304.58nm, 18dB, SM