

# SFP28 BiDi

## 25G Ethernet BiDi Transceiver

### DESCRIPTION

The SFP28 BiDi transceiver is a long range 25 Gbit/s pluggable optical module for single fiber data communication, such as 25GBASE Ethernet, up to 30km.

The module is fully compliant with all SFP28 related MSA standards and Digital Diagnostic functions are available through an I2C interface. SFP28 BiDi complies with IEEE 802.3.

### APPLICATIONS

- 25GBASE-BX
- Single fiber operations

### FEATURES

- Up to 30km transmission on SM fiber
- Hot-Pluggable SFP footprint
- Simplex LC Optical interface
- SFP28 MSA compatible
- Digital Diagnostics Monitoring interface
- Single 3.3 V power supply
- Power dissipation < 2 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] Tx/Rx	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SFP28-BX10D-23	SM	1270/1330nm	-5 to 2	-13 to 2	8
SFP28-BX10D-32	SM	1330/1270nm	-5 to 2	-13 to 2	8
SFP28-BX30D-23	SM	1270/1330nm	0 to 5	-18 to -5	18
SFP28-BX30D-32	SM	1330/1270nm	0 to 5	-18 to -5	18

### ORDERING INFORMATION

Part no.	Description
SFP28-BX10D-23	SFP28, BiDi, 25Gbps, DDM, SM, 10km, Tx/Rx=1270/1330nm, 8dB
SFP28-BX10D-32	SFP28, BiDi, 25Gbps, DDM, SM, 10km, Tx/Rx=1330/1270nm, 8dB
SFP28-BX30D-23	SFP28, BiDi, 25Gbps, DDM, SM, 30km, Tx/Rx=1270/1330nm, 18dB
SFP28-BX30D-32	SFP28, BiDi, 25Gbps, DDM, SM, 30km, Tx/Rx=1330/1270nm, 18dB