

# SFP-10GE-BX Family

## 10G Ethernet Bi-Directional SFP+ for single fiber

### DESCRIPTION

The SFP-10GE-BX transceiver family are small form factor pluggable modules for bi-directional serial optical data communications such as 10GBASE Ethernet over a single optical fiber. The modules are compliant to the SFP+ MSA and are hot pluggable. Digital diagnostic functions are available via an I2C serial bus specified in the SFP MSA SFF-8472. The modules meet the requirements of the IEEE 802.3 10GBASE-BX Ethernet standard and are suitable for interconnections in 10G Ethernet environments.

SFP-10GE-BX uses 1270 nm and 1330 nm wavelengths for bi-directional transmission on a single fiber

### APPLICATIONS

- 10GBASE-BX at 10.3125Gb/s
- 10GBASE-BX at 9.953 Gb/s

### FEATURES

- Up to 60 km transmission on SMF
- Hot-Pluggable SFP+ footprint LC Optical Transceiver
- Single Mode Simplex LC receptacle
- Small Form-Factor Pluggable (SFP) MSA compatible
- Digital Diagnostic Monitoring
- SFF-8472 Digital Diagnostic Function
- Single +3.3V Power Supply and LVTTTL Logic
- Operating Case 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 TX [nm]	Wavelength RX [nm]	Opt. Output Power [dBm]	Opt. Receiver Sensitivity [dBm]	Power Budget [dB]
SFP-10GE-BX10D-23	SM	1270	1330	-5 to 0	-14 to 0	9
SFP-10GE-BX10D-32	SM	1330	1270	-5 to 0	-14 to 0	9
SFP-10GE-BX40D-23	SM	1270	1330	-1 to +4	-15 to 0	14
SFP-10GE-BX40D-32	SM	1330	1270	-1 to +4	-15 to 0	14
SFP-10GE-BX60D-23	SM	1270	1330	0 to 5	-20 to -7	20
SFP-10GE-BX60D-32	SM	1330	1270	0 to 5	-20 to -7	20

**ORDERING INFORMATION**

Part no.	Description
SFP-10GE-BX10D-23	SFP+, 10G Ethernet, DDM, 10km, BiDi, TX1270, RX1330, 9dB, SM
SFP-10GE-BX10D-32	SFP+, 10G Ethernet, DDM, 10km, BiDi, TX1330, RX1270, 9dB, SM
SFP-10GE-BX40D-23	SFP+, 10G Ethernet, DDM, 40km, BiDi, TX1270, RX1330, 14dB, SM
SFP-10GE-BX40D-32	SFP+, 10G Ethernet, DDM, 40km, BiDi, TX1330, RX1270, 14dB, SM
SFP-10GE-BX60D-23	SFP+, 10G Ethernet, DDM, 60km, BiDi, TX1270, RX1330, 20dB, SM
SFP-10GE-BX60D-32	SFP+, 10G Ethernet, DDM, 60km, BiDi, TX1330, RX1270, 20dB, SM