

DATA SHEET

SFP+ 10G BASE-BX BIDIRECTIONAL 10 KM TRANSCEIVER

DESCRIPTION

This transceiver is designed for bidirectional application over 20Km link.

Two codes are available for the two directions:

- Tx 1270 nm / Rx 1330 nm (upstream)
- Tx 1330 nm / Rx 1270 nm (downstream)



KEY FEATURES

Up to 10Km transmission on SMF

SFP+ package with LC connector

1270nm (1330nm) DFB Laser and PIN photodetector

Hot-pluggable SFP+ footprint

Up to 10.7Gbps Data Links

+3.3V single power supply

Power dissipation < 1.5W

2-wire interface with integrated Digital Diagnostic monitoring

Low EMI and excellent ESD protection

Case temperature range : -5°C to 70°C

APPLICATIONS

SDH STM-64/SONET OC192 at 9.953Gbps

10G Ethernet at 10.3125Gbps

10G Fiber channel at 10.5187Gbps

OC192 over FEC at 10.709Gbps

COMPLIANCES

Compliant with SFF-8472 SFP+ MSA.

Compliant to SFP+ SFF-8431 and SFF-8432.

RoHS Compliant6

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	0		+70	°C
Storage Temperature	-40	-----	+85	°C
Operation Humidity*	5	-----	85	%
Storage Humidity	5	-----	95	%

(*) not condensing

OPERATING SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Supply Voltage	3.1	+3.3	+3.5	V
Power Dissipation			1.5	W
Transmission Distance			10	Km

OPTICAL SPECIFICATIONS

TRANSMITTER

Parameter	Min.	Typ.	Max.	Unit
Wavelength (Tx1270)	1260	1270	1280	nm
Wavelength (Tx1330)	1310	1330	1350	nm
Average Launch Power (each lane)	-4		1	dBm
Extinction Ratio (ER)	4			dB
Spectrum Band Width (RMS)			1	nm
SMSR	30			dB

RECEIVER

Parameter	Min.	Typ.	Max.	Unit
Wavelength (Rx1330)	1310	1330	1350	nm
Wavelength (Rx1270)	1260	1270	1280	nm
Receiver Sensitivity			-15	dBm
Input Saturation Power (Overload)	0			Psat
LOSA	-26			dBm
LOSD			-20	dBm
Hysteresis	0.5		5	dB

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ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPSB10LRLCC000L23	SFP+	10G	10 Km	DDM/RoHS - Tx 1270 nm / Rx 1330 nm
JPSB10LRLCC000L32	SFP+	10G	10 KM	DDM/RoHS Tx 1330 nm / Rx 1270 nm

For additional information, visit jabil.com/photonics