

## DATA SHEET

# SFP+ 10G BASE-BX BIDIRECTIONAL 20 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 20Km transmission on SMF
- SFP+ package with LC connector
- 1270nm (1330nm) DFB LD with isolator and PIN/TIA receiver
- 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			20	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)	-1		4	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	20 Km	DDM/RoHS - Tx 1270 nm / Rx 1330 nm
JPSB10LRLCC000L32	SFP+	10G	20 KM	DDM/RoHS Tx 1330 nm / Rx 1270 nm

## CONTACT INFORMATION

**For additional information and evaluation samples order, please contact:**

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