

## DATA SHEET

# SFP+ 10GBASE-ZR/ZW, 1550NM SMF 80KM TRANSCEIVER

## DESCRIPTION

This transceiver is designed for use in 10-Gigabit Ethernet links up to 80km over single mode fiber. The module consists of 1550 EML Laser, InGaAs PIN and Preamplifier in a high-integrated optical sub-assembly. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF8472. The module data link up to 80km in 9/125um single mode fiber.



## KEY FEATURES

Maximum link length of 80km

Hot-pluggable SFP+ footprint

Supports 9.5 to 10.3Gb/s bit rates

Power dissipation < 1.5W

Single 3.3V power supply

1550nm EML transmitter, PIN photo-detector

Duplex LC connector

Power dissipation < 1.5W

Built-in digital diagnostic functions

Case temperature range : -5°C to 70°C

## APPLICATIONS

10GBASE-ZR/ZW 10G Ethernet

## COMPLIANCES

Compliant with SFF-8472 SFP+ MSA.

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

Compliant to 802.3ae 10GBASE-ZR.

RoHS Compliant6

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### ENVIRONMENTAL SPECIFICATIONS

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

(\*) not condensing

### OPERATING SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Supply Voltage	3.14	+3.3	+3.46	V
Power Dissipation			1.5	W
Transmission Distance			80	Km

### OPTICAL SPECIFICATIONS

#### TRANSMITTER

Parameter	Min.	Typ.	Max.	Unit
Wavelength	1530	1550	1565	nm
Average Launch Power (each lane)	0		5	dBm
Extinction Ratio (ER)	6			dB
Spectrum Band Width (RMS)			1	Nm
SMSR	30			dB
Transmitter OFF Output Power			-40	dBm
Optical Rise/Fall Time		100	260	Ps
Transmitter and Dispersion Penalty			3	dB
Output Eye Mask	Compliant with IEEE 0802.3ae			

#### RECEIVER

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1270		1610	nm
Receiver Sensitivity			-23	dBm
Input Saturation Power (Overload)	0.5			Psat
LOSA	-36			dBm
LOSD			-24	dBm
Hysteresis	0.5			dB

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## ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPSP10ZRLCC000L15	SFP+	10G	80 Km	DDM/RoHS

For additional information, visit [jabil.com/photonics](http://jabil.com/photonics)