

## DATA SHEET

# SFP+ 10GBASE-LR/LW / I-64.1 / 10G FC, 1310NM SMF 10KM TRANSCEIVER

## DESCRIPTION

This transceiver is hot pluggable duplex-LC optical transceiver designed for using in 10Gbps serial applications such as SONET OC192/SDH STM64, 10Gigabit Ethernet and 10Gbps Fiber Channel applications. It operates with single +3.3V power supplies. The transceiver conforms to the 10Gbps SFP+ multi-source agreement (MSA).

This transceiver consists of optical subassemblies (OSA) for both transmitter and the receiver, and an electrical subassembly, which is packaged together in a metal enclosure. The TOSA is a high-performance 1310nm DFB with isolator, and the ROSA is high speed PIN type detector with a built-in preamplifier.



## KEY FEATURES

1310nm DFB and PIN receiver

LVTTTL (open collector) digital diagnostic monitoring signals

Compliant with specifications for IEEE-802.3ae 10Gigabit Ethernet at 10.3Gbps and 10G Fiber Channel at 10.52Gbps

Conforms to 10Gbps SFP+ Multi-Source Agreement

Class 1 Laser Safety Conformance

Compatible with industry standard SFP electrical connector & cage

Industry standard duplex LC optical connector

Operates with 9/125  $\mu$ m signal-mode optical fibers

Case temperature range : 0°C to 70°C

## APPLICATIONS

10G Ethernet at 10.3125Gbps for up to 10km reach

10G Fiber channel at 10.5187Gbps

OC192 over FEC at 10.709Gbps

SDH STM-64/SONET OC192 at 9.953Gbps

## 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	-----	85	%

(\*) not condensing

## OPERATING SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Supply Voltage	3.1	+3.3	+3.5	V
Power Dissipation		2.4		W
Transmission Distance			10	Km

## OPTICAL SPECIFICATIONS

### TRANSMITTER

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1270	1310	1355	nm
Average Launch Power	-8.2	-	0.5	dBm
Extinction Ratio (ER)	3.5			dB
SMSR	30			dB
Bandwidth@-20dB			1	nm

### RECEIVER

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1100		1600	nm
Receiver Sensitivity			-12.6	dBm
Input Saturation Power (Overload)	0			dBm
LOSA	-25			dBm
Hysteresis	0.5		5	dB



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## ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPSP10LRLCC000L13	SFP+	10G	10Km	DDM/RoHS

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