

## DATA SHEET

# SFP+ 10GBASE-ER/EW / S-64.2, 1550NM SMF 40KM TRANSCEIVER

## DESCRIPTION

This transceiver is designed for use in 10-Gigabit Ethernet links up to 40km 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 40km in 9/125um single mode fiber.



## KEY FEATURES

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Maximum link length of 40km

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Hot-pluggable SFP+ footprint

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Supports 9.5 to 10.3Gb/s bit rates

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Power dissipation < 1.5W

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Single 3.3V power supply

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1550nm EML transmitter, PIN photo-detector

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Duplex LC connector

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Power dissipation < 1.5W

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Built-in digital diagnostic functions

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Case temperature range : -5°C to 70°C

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## APPLICATIONS

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10GBASE-ER/EW 10G Ethernet

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## COMPLIANCES

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Compliant with SFF-8472 SFP+ MSA.

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

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Compliant to 802.3ae 10GBASE-ER.

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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			40	Km

### OPTICAL SPECIFICATIONS

#### TRANSMITTER

Parameter	Min.	Typ.	Max.	Unit
Wavelength	1530	1550	1565	nm
Average Launch Power (each lane)	-2		4	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			-15	dBm
Input Saturation Power (Overload)	0.5			Psat
LOSA	-28			dBm
LOSD			-19	dBm
Hysteresis	0.5			dB



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## ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPSP10ERLCC000L15	SFP+	10G	40 Km	DDM/RoHS

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