

## DATA SHEET

# SFP+ 10G DWDM 80KM I-TEMP TRANSCEIVER

## DESCRIPTION

This transceiver is Multi-Vendor MSA Compatible SFP+ (Small Form factor Pluggable), operating over pair of single mode fiber (SMF) for 80Km DWDM application. This transceiver uses top quality EML Laser transmitter with operating at specific wavelength in ITU-T DWDM Grid 100 GHz C-Band and PIN Photodiode receiver. It supports DDM optical diagnostics and operates in Industrial temperature range (-40°/+85°C).



## KEY FEATURES

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Up to 10.3Gb/s bi-directional data links

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100GHz ITU Grid, C-Band

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Up to 80km on 9/125µm SMF

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Electrical interface specifications per SFF-8431

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Management interface specifications per SFF-8431 and SFF-8472

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SFP+ MSA package with duplex LC connector

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DWDM-rated EML Transmitter

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Single +3.3V power supply

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Class 1 laser safety certified

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Operating temperature: 0°C to +70°C commercial, and -40°C to +85°C industrial

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RoHS Compliant

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## APPLICATIONS

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10G Ethernet 10GBASE-ZR/ZW

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80km 10G DWDM Network

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## COMPLIANCES

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Compliant to SFF-8402, SFF-8432.

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Compliant to IEEE802.3ba

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DDM Compliant with SFF-8472 SFP+ MSA.

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RoHS Compliant6

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### ENVIRONMENTAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	-40		+85	°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	3.135	+3.3	+3.465	V
Power Dissipation			1.8	W
Transmission Distance			80	Km

### OPTICAL SPECIFICATIONS

#### TRANSMITTER

Parameter	Min.	Typ.	Max.	Unit
Wavelength	1528.77	-	1563.86	nm
Average Optical Power	0		4	dBm
Optical Modulation Amplitude, 25GE	-2			dBm
Side Mode Suppression Ratio	30			dB
Extinction Ratio (ER)	9			dB
Transmitter and Dispersion Penalty			3	dB
Optical Return Loss Tolerance			21	dB

#### RECEIVER

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1528	-	1565	nm
Receiver Sensitivity			-23	dBm
OSNR	27			dB
Max OSNR Path Penalty			4	dB
LOSA	-35			dBm
LOSD			-25	dBm
Hysteresis	0.5			dB

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### ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPSP10ZRLCI000Dxx	SFP+	10G	80Km	DDM/RoHS

xx = channel number (100GHz grid)

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