

## DATA SHEET

# SFP+ 10G CWDM 10KM C-TEMP TRANSCEIVER

## DESCRIPTION

This transceiver is designed for CWDM links up to 20Km. With the explosion in the access of 10Gb/s for backhauling or fronthauling of 5G signals, this module represents a viable economical solution.

It is a 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 is compatible with the industry standard SFP+ connector and cage and conforms to the SFP+ multi-source agreement (MSA).

This transceiver consists of optical subassemblies (TOSA/ROSA) for both transmitter and the receiver, and an electrical subassembly, which are packaged together in a metal enclosure. The transmitter is a high-performance CWDM-DFB transmitter and the receiver is a high sensitivity PIN to provide superior performance for Ethernet applications up to 20km optical links.



## KEY FEATURES

RoHS Compliant

Support multi protocol from 8.5Gb/s to 11.3Gb/s

Hot pluggable SFP+ footprint

Compliant with SFF 8472 and IEE802.3ae

Transmission distance of 10km over single mode fiber

PIN Receiver and Duplex LC connector

Single Power 3.3V supply voltages

Temperature range: 0°C to 70°C

Class 1 Laser Safety Conformance

## APPLICATIONS

10G Ethernet 10GBASE-ZR/ZW

20km 10G CWDM Network

## COMPLIANCES

Compliant to SFF-8402, SFF-8432.

Compliant to IEEE802.3ba

DDM Compliant with SFF-8472 SFP+ MSA.

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	-----	95	%
Storage Humidity	5	-----	95	%

(\*) not condensing

### OPERATING SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Supply Voltage	3.1	+3.3	+3.45	V
Power Dissipation			1.8	W
Transmission Distance			10	Km

### OPTICAL SPECIFICATIONS

#### TRANSMITTER

Parameter	Min.	Typ.	Max.	Unit
Wavelength	1270	-	1610	nm
Average Optical Power	-3		2	dBm
Side Mode Suppression Ratio	30			dB
Extinction Ratio (ER)	4			dB

#### RECEIVER

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	1270	-	1610	nm
Receiver Sensitivity			-14.5	dBm
Received Overload	0			dBm
LOSA	-30			dBm
Hysteresis	0.5			dB



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## ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPSP10LRGCC000Cxx	SFP+	10G	10Km	DDM/RoHS

xx = channel number (CWDM grid)

## CONTACT INFORMATION

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

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