

## DATA SHEET

# SFP28 25G SR, 850NM MMF TRANSCEIVER EXTENDED TEMPERATURE

## DESCRIPTION

This transceiver is an 850 nm VCSEL 25Gigabit SFP28 module. It is support up to 70m on OM3 MMF and 100m on OM4 MMF. The transceiver has a duplex LC optical interface and all mechanical characteristics are compliant with the current SFP+ specification (SFF-8431 and SFF-8432).



## KEY FEATURES

Compatible with CPRI option10 24.33Gbps and 25GBASE 25.78Gbps

Operating data rate up to 28.05Gbps

100m transmission over OM4 MMF

70m transmission over OM3 MMF

850nm VCSEL laser and PIN photo-detector

Internal CDR on both Transmitter and Receiver channel

Maximum power dissipation<1W

SFP28 MSA compliant

Built-in digital diagnostic functions

Single +3.3V power supply

Operating case temperature: -40 to +85 °C

RoHS 6 Compliant

Duplex LC Connector Interface, Hot Pluggable

## APPLICATIONS

25GbE

CPRI

## COMPLIANCES

Compliant to SFF-8402, SFF-8432.

Compliant to IEEE802.3.

DDM Compliant with SFF-8472 SFP+ MSA.

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	3.1	+3.3	+3.5	V
Power Dissipation			1	W
Transmission Distance			100	m

### OPTICAL SPECIFICATIONS

#### TRANSMITTER

Parameter	Min.	Typ.	Max.	Unit
Wavelength	840	850	860	nm
Average Launch Power	-4.5		2.5	dBm
Extinction Ratio (ER)	2			dB

#### RECEIVER

Parameter	Min.	Typ.	Max.	Unit
Input Wavelength	840	850	860	nm
Receiver Sensitivity			-6	dBm
LOSA	-30			dBm
LOSD			-11	dBm
Hysteresis	0.5			dB

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ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPS825S1LCE000L85	SFP28	25G	100m	DDM/RoHS

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