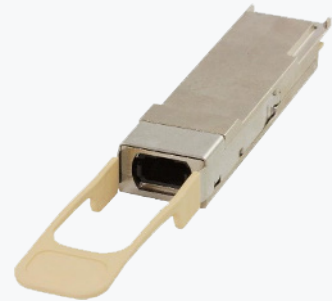


## DATA SHEET

# 100G QSFP28 SR4 TRANSCEIVER

## DESCRIPTION

The 100G QSFP28 SR4 transceiver is a four-channel, pluggable, parallel, fiber-optic QSFP28 SR4 for 100-Gigabit Ethernet. This transceiver is a high-performance module for short-range multi-lane data communication and interconnect applications. It integrates four data lanes in each direction with 100Gbps bandwidth. Each lane can operate at 25Gbps up to 70m using OM3 fiber or 100m using OM4 fiber. These modules are designed to operate over multimode fiber systems using a nominal wavelength of 850nm. The optical interface uses 12-fiber MTP/MPO connector. The transceiver proven circuit to provide reliable long life, high performance, and consistent service.



## KEY FEATURES

Up to 70m using OM3 MMF and 100m using OM4 MMF

Operating case temperature: 0~70°C

Maximum Power consumption less than 3W

4 channels 850nm VCSEL array

4 channels PIN photo-detector array

Single channel rate up to 25 Gbps

Internal CDR on both Transmitter and Receiver channels

DDM function implemented

Hot pluggable QSFP28 form factor

Single 1x12 MPO receptacle optical interface

Single +3.3V power supply

## APPLICATIONS

100GBASE-SR4 100G Ethernet

Data Center Interconnect

Enterprise networking

## COMPLIANCES

Compliant with QSFP28MSA

Compliant with IEEE802.3bm

Compliant with SFF-8665, SFF-8679, SFF-8636

Compliant with RoHS-6

## DATA SHEET

# 100G QSFP28 SR4 TRANSCEIVER

### ENVIRONMENTAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Operation Temperature	0	+25	+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			3	W
Total Data Rate		103.125		Gb/s
Data Rate (Each lane)		25.78		Gb/s
Transmission Distance			70-100	m

### OPTICAL SPECIFICATIONS

#### TRANSMITTER

Parameter	Min.	Typ.	Max.	Unit
Bit Rate (each Lane)		25.78 +/- 100ppm		Gb/s
Wavelength	840	850	860	nm
Average Launch Power (each lane)	-8.5		2.5	dBm
Transmitter OMA (each lane)	-6.4		3	dBm
Extinction Ratio (ER)	3			dB

#### RECEIVER

Parameter	Min.	Typ.	Max.	Unit
Bit Rate (each Lane)		25.78 +/- 100ppm		Gb/s
Wavelength	840	850	860	nm
Receiver Sensitivity (unstressed, each lane)			-10.2	dBm
Receiver Sensitivity (stressed, each lane)			-5.2	dBm
Receiver Reflectance			-12	dBm
LOSA	-30			dBm
LOSD			-7.5	dBm
Hysteresis	0.5			dB



## DATA SHEET

# 100G QSFP28 SR4 TRANSCEIVER

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### ORDERING INFORMATION

Jabil Part Number	Package	Rate	Reach	Other info
JPQ81CS1MOC000SR4	QSFP28	100G	70-100m	DDM/RoHS

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