

## **Broadstick 100G Transceiver** **QSFP28 SR4 850nm 100mts** **for Juniper Networks**

PN: BS100GQFPJUNSR



Broadstick provides Juniper compatible transceivers that meet the industry standards. All transceivers are standards-based and comply with the MSA.

Form Type	QSFP28	Max Distance	100mts
Wavelength	850nm	Compatible for	Juniper Networks
Interface	MTP	Fiber Type	OM4
Type	SR4	Temp Range	0 to 70 °C

These transceivers are manufactured using the best quality components available. Our commitment to quality means we produce a consistent, standardized product, purpose-built for compatibility with today's top Original Equipment Manufacturer (OEM) specifications.

Our factory has the ISO 9001 certification and our devices are tested in fabric.

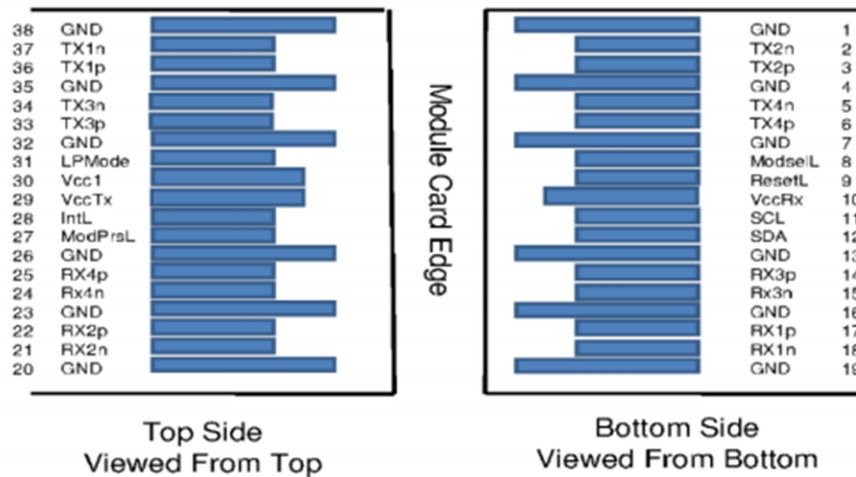


The installation a Broadstick transceiver does not affect your network equipment warranty. The equipment manufacturers have all the guidelines stating that warranty support on their products and it will not be affected.

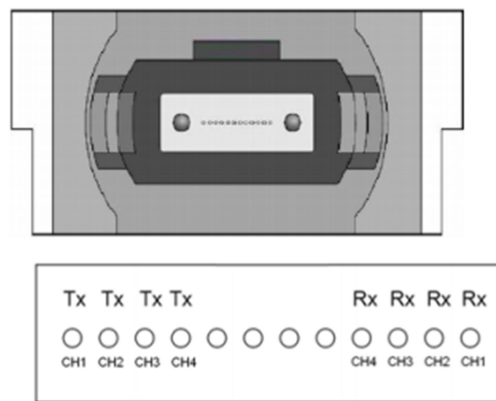
For more information please contact [sales@broadstick.com](mailto:sales@broadstick.com)

[www.broadstick.com](http://www.broadstick.com)

### Pin Description



### Optical Interface



### Features:

- Hot-pluggable QSFP28 form factor.
- Supports 103.1Gb/s to 112.2Gb/s aggregate bit rates.
- Power dissipation < 3.5W.
- RoHS-6 compliant.
- Commercial case temperature range of 0°C to 70°C.
- Single 3.3V power supply.
- Maximum link length of 100m on OM4 Multimode Fiber (MMF).
- 4x25Gb/s 850nm VCSEL-based transmitter.
- 4x25G electrical interface.
- I2C management interface.

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### Absolute Maximum Ratings

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Storage Temperature	T <sub>s</sub>	-20	-	+85	°C	
Supply Voltage	V <sub>CC</sub>	-0.3	-	+3.6	V	
Case Operating Temperature	T <sub>OP</sub>	0	-	70	°C	
Operating Relative Humidity	RH	-	-	+85	%	
Receiver Damage Threshold, per Lane	PR <sub>dmg</sub>	5.5	-	-	dBm	

### Optical Details

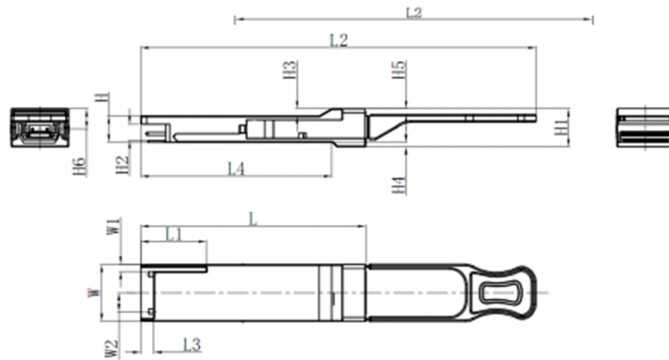
Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
<b>Transmitter</b>						
Signaling Speed per Lane		25.78125 ± 100ppm			Gb/s	1
Center wavelength		840	-	860	nm	
RMS Spectral Width	SW	-	-	0.6	nm	
Average Launch Power per Lane	TXP <sub>x</sub>	-8.4	-	2.4	dBm	
Transmit OMA per Lane	TxOMA	-6.4	-	3	dBm	
Launch Power [OMA] minus TDEC per Lane	P-TDEC	-7.3	-		dBm	
TDEC per Lane	TDEC	-	-	4.3	dBm	
Optical Extinction Ratio	ER	2	-		dB	

<b>Receiver</b>						
Signaling Speed per Lane		25.78125 ± 100ppm			GBd	2
Center wavelength		840	-	860	nm	
Average Receive Power per Lane	RXP <sub>x</sub>	-10.3	-	2.4	dBm	3
Receiver Reflectance	R <sub>fl</sub>	-	-	-12	dB	
Stressed Receiver Sensitivity (OMA) per Lane	SRS	-	-	-5.2	dBm	
LOS De-Assert	LOSD	-	-	-12	dBm	

LOS Assert	LOSA	-30	-	-	dBm	
LOS Hysteresis		0.5	2	-	dB	

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**Mechanical Dimension**



Unit: mm

	L	L1	L2	L3	W	W1	W2	H	H1	H2
MAX	72.2	—	122	4.35	18.45	—	6.2	8.6	12.0	5.35
Typical	72.0	—	—	4.20	18.35	—	—	8.5	11.8	5.2
MIN	68.8	16.5	118	4.05	18.25	2.2	5.8	8.4	11.6	5.05

Remember that Installing an OEM transceiver does not affect your network equipment warranty. The equipment manufacturers have all the guidelines stating that warranty support on their products and it will not be affected. This transceivers are compatible the use of it do not affect the CPU of the equipment and will not affect the Network performance.

Our devices and factories have passed many quality system verifications, like CE, RoHS, FCC, that compliant with international quality standards that assure the production. We strictly implement the standardized management to control the design, production, and service.



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