

# 100G 100 m QSFP28 Transceiver

## ET7402-SR4



### Product Features

- Compliant with IEEE Std 802.3bm
- Compliant with QSFP28 MSA
- Management interface specifications per SFF-8636
- Single MPO connector receptacle
- 4 channels 850 nm VCSEL array
- 4 channels PIN photo detector array
- Up to 103.1 Gb/s data rates
- Single +3.3 V power supply
- Class 1 laser safety certified
- Commercial Operating Temperature: 0°C to +70°C
- Up to 70 m on OM3 MMF and 100 m on OM4 MMF
- RoHS Compliant

### Applications

- 100GBASE-SR4 Ethernet
- Data Center

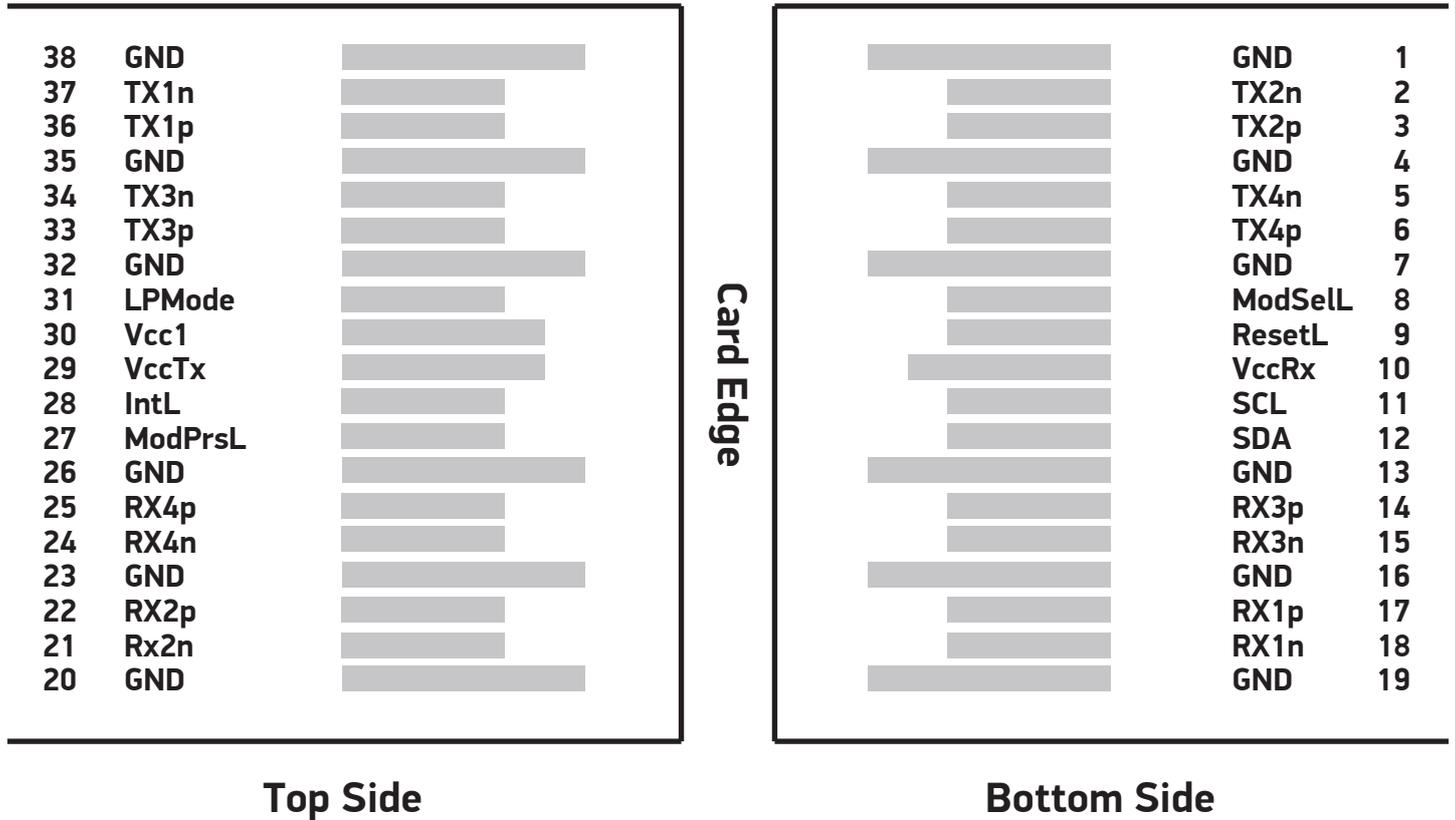
### Descriptions

The ET7402-SR4 QSFP28 transceiver is designed for use in 100 Gb/s links over multimode fiber. The module integrates a four-channel VCSEL array and a four-channel PIN photodiode array, and can operate at 103.1 Gb/s up to 70 m using OM3 MMF, or 100 m using OM4 MMF. The transceiver is compliant with the QSFP28 MSA and IEEE 802.3bm.

### Ordering Information

Part Number	Transmitter	Output Power	Sensitivity	Reach	Temp	DDM	RoHS
ET7402-SR4	850 nm	-8.4 ~ +2.4 dBm	< -10.3 dBm	100 m	0~ 70 °C	Available	Compliant

## Pin Description



## Absolute Maximum Ratings

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only. Functional operation of the device is not implied at these or any other conditions in excess of those given in the operational sections of the datasheet. Exposure to absolute maximum ratings for extended periods can adversely affect device reliability.

Parameter	Symbol	Minimum	Maximum	Unit
Storage Temperature	Ts	-40	85	°C
Relative Humidity	RH	5	95	%
Supply Voltage	Vcc	-0.5	4.0	V

## Recommended Operating Conditions

Parameter	Symbol	Minimum	Typical	Maximum	Unit	
Operating Case Temperature	Tc	0	25	70	°C	
Supply Voltage	Vcc	3.135	3.3	3.465	V	
Data Rate PER Channel	-	-	25.78125	-	Gb/s	

## Transceiver Electrical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Module Supply Current	Icc	-	-	750	mA	
Power Dissipation	Pd	-	-	2.5	W	

## Transmitter Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Launch Optical Power	Po	-8.4	-	+2.4	dBm	-
Center Wavelength Range	$\lambda_c$	840	850	860	nm	-
Extinction Ratio	ER	2	-	-	dB	-

## Receiver Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Center Wavelength	$\lambda_c$	840	850	860	nm	-
Receiver Sensitivity in Average Power	S	-	-	-10.3	dBm	-
Receiver Overload in Average Power	PoL	2.5	-	-	dBm	

## Warranty

Please check [www.edge-core.com](http://www.edge-core.com) for the warranty terms in your country.

## For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit [www.edge-core.com](http://www.edge-core.com).

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