

# 10G 300m SFP+ Transceiver

## ET5402-SR



### Product Features

- Compliant with SFP+ MSA
- Data Rate 10.3125 Gbps
- VSCSEL Laser and PIN receiver
- Single 3.3V power supply
- 300m links on OM3 multimode fiber or 400m links on OM4 multimode fiber
- LC duplex receptacle
- Low power dissipation (<1W)
- Hot Pluggable
- Built in digital diagnostic Functions
- RoHS compliant
- Commercial operating temperature: 0°C to +70°C

### Applications

- 10GBASE-SR 10Gigabit Ethernet
- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes

### Descriptions

The ET5402-SR transceivers are high-performance, cost-effective modules supporting a data rate of 10Gbps and a 300 m (OM3) or 400 m (OM4) transmission distance with MMF. The transceivers are compatible with SFP+ Multi-Source Agreement (MSA) for further information, please refer to SFP MSA.

### Ordering Information

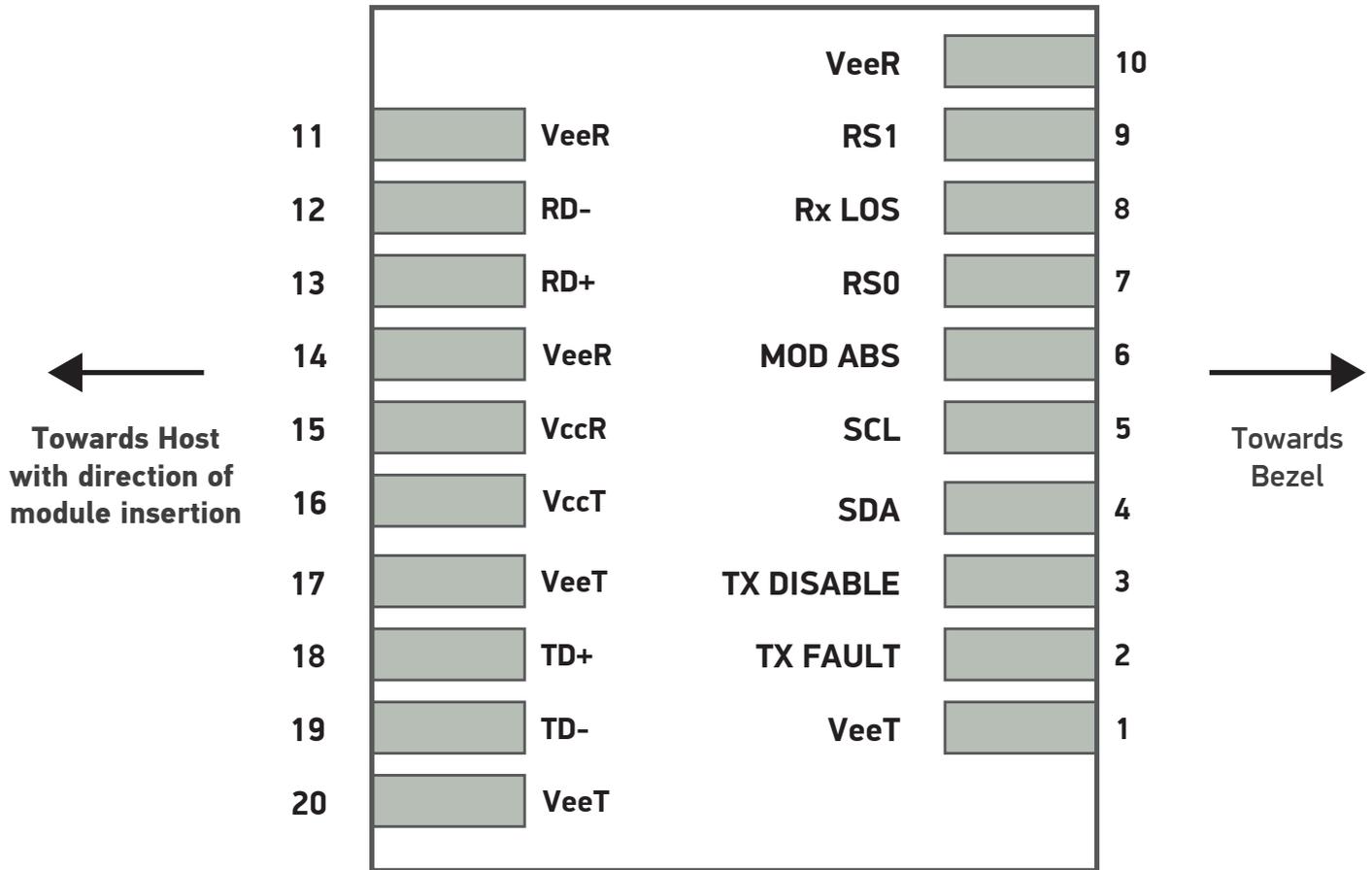
Part Number	Transmitter	Output Power	Sensitivity	Reach	Temp	DDM	RoHS
ET5402-SR	850 nm	-6.0 ~ -1.0 dBm	-10.0 ~ 0.5 dBm	300 m (1) 400 m (1)	0~ 70 °C	Available	Compliant

Notes:

1. 300 m links on OM3 multimode fiber or 400m links on OM4 multimode fiber.



## 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 data sheet. 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	-0.3	4	V	

## Recommended Operating Conditions

Parameter	Symbol	Minimum	Typical	Maximum	Unit	
Operating Case Temperature	Tc	0		70	°C	
Supply Voltage	Vcc	3.14	3.3	3.47	V	
Data Rate PER Channel	-	-	10.3125	-	Gb/s	

## Transceiver Electrical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Transmitter Differential Input Voltage	Vin	mVpp		100		
Receiver Differential Output Voltage	Vo	mVpp	300		850	

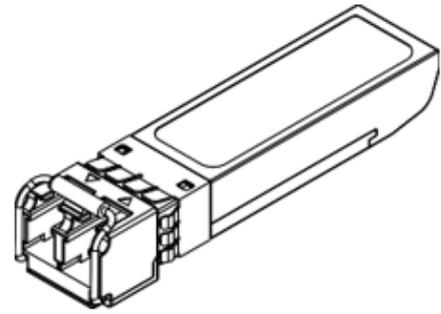
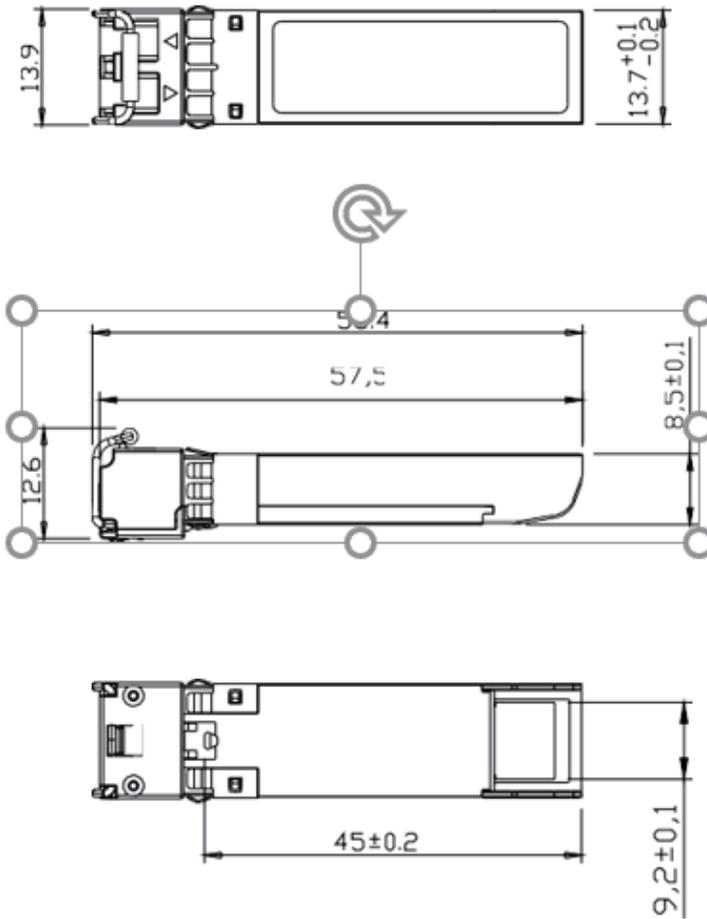
## Transmitter Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Launch Optical Power	Po	-6.0		-1	dBm	-
Center Wavelength Range	$\lambda_c$	840	850	860	nm	-
Extinction Ratio	ER	3.0	-	-	dB	-

## Receiver Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Center Wavelength	$\lambda_c$	770	850	860	nm	-
Receiver Sensitivity in Average Power	Sen	0.5		-10	dBm	-

## Mechanical Specifications



Units in mm

### 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).

### About Edgecore Networks Corporation

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