

# 25G 10km SFP28 Transceiver

## ET7302-LR



### Product Features

- Up to 25.78 Gb/s bi-directional data links
- Electrical interface specifications per SFF-8431
- Management interface specifications per SFF-8432 and SFF-8472
- Build-in dual CDR with shut-off control
- SFP28 MSA package with duplex LC connector
- Uncooled 1310 nm DFB Laser
- Up to 10 km on 9/125um SMF
- Single +3.3 V power supply
- Class 1 laser safety certified
- 1.5W maximum power consumption with established link
- Operating Temperature: 0°C to +70°C
- RoHS Compliant

### Applications

- High-speed storage area networks
- 25G high-speed interconnection

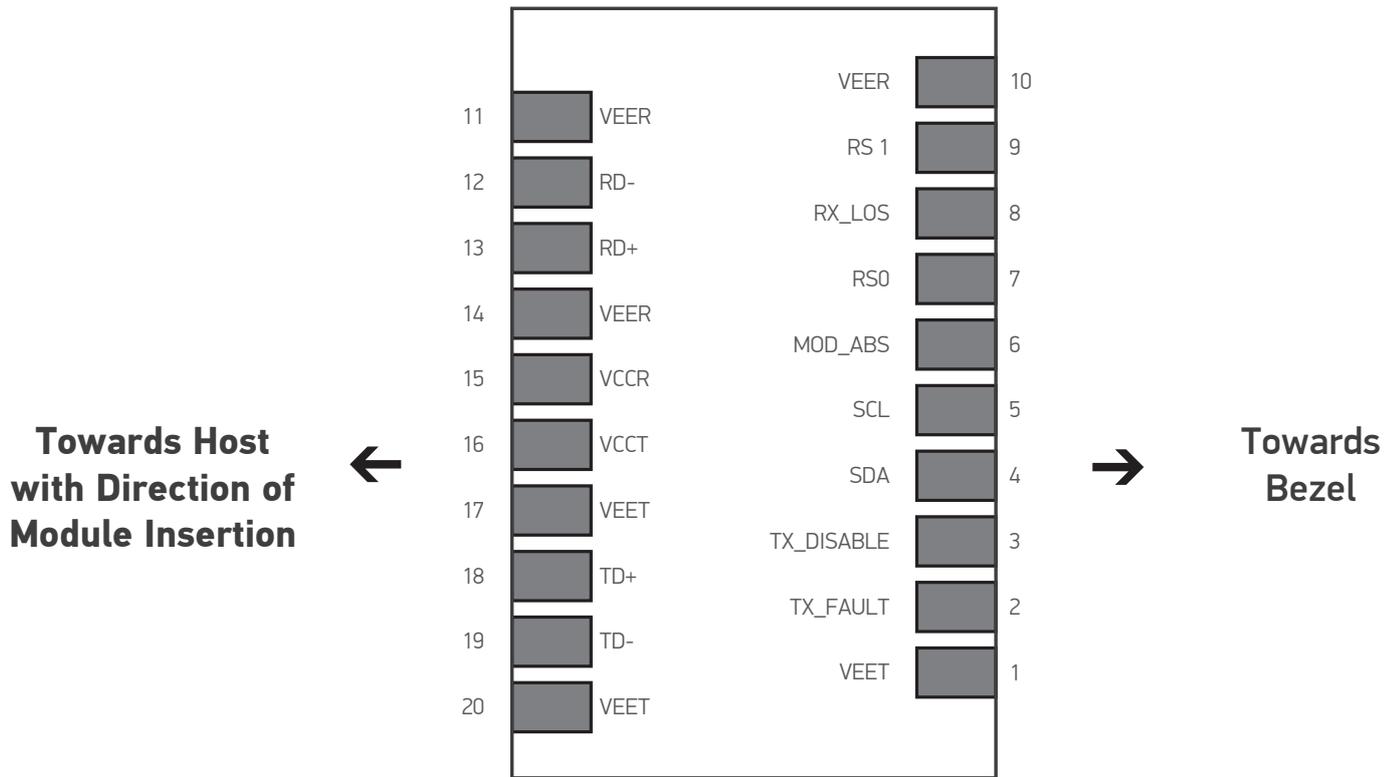
### Description

The ET7302-LR SFP28 transceiver is compliant with the 25 Gigabit Small Form Factor Pluggable SFP28 Multi-Source Agreement (MSA) SFF-8431 Rev. 4.1 and SFF-8472 Rev. 12.0, and is designed for use at 9.8304 Gb/s to 25.78Gb/s data rates and up to a 10km link length. It is compatible with SFF-8432.

### Ordering Information

Part Number	Transmitter	Output Power	Sensitivity	Reach	Temp	DDM	RoHS
ET7302-LR	1310 nm	-6.5 ~ +2.0	<-11.3 dBm	10 km	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	T <sub>c</sub>	0	25	70	°C	
Supply Voltage	V <sub>cc</sub>	3.135	3.3	3.465	V	
Data Rate Per Channel	-	-	24.33 25.78	-	Gb/s	

## Transceiver Electrical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Module Supply Current	I <sub>cc</sub>	-	-	450	mA	
Power Dissipation	P <sub>d</sub>	-	-	1.5	W	

## Transmitter Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Launch Optical Power	P <sub>o</sub>	-6.5	-	+2	dBm	
Extinction Ratio	ER	3.5	-	-	dB	
Center Wavelength Range	λ <sub>c</sub>	1295	1310	1325	nm	

## Receiver Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Center Wavelength	λ <sub>c</sub>	1260	1310	1370	nm	
Receiver OMA Sensitivity	RxSENS	-	-	-11.3	dBm	
Receiver Overload (P <sub>avg</sub> )	P <sub>oL</sub>	2	-	-	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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