

40G 100m QSFP+ Transceiver

ET6401-SR4



Product Features

- Compliant with IEEE Std 802.3ba, 40G Ethernet SR4
- Compliant with QSFP+ MSA
- Management interface specifications per SFF-8436
- Single MPO connector receptacle
- 4 channels 850 nm VCSEL array
- 4 channels PIN photo detector array
- Up to 10.3 Gb/s per channel data links
- Single +3.3 V power supply
- Class 1 laser safety certified
- Commercial Operating Temperature: 0°C to +70°C
- Up to 100 m on OM3 MMF and 150 m on OM4 MMF
- RoHS Compliant

Applications

- High-speed storage area networks
- Fiber channel
- Data center

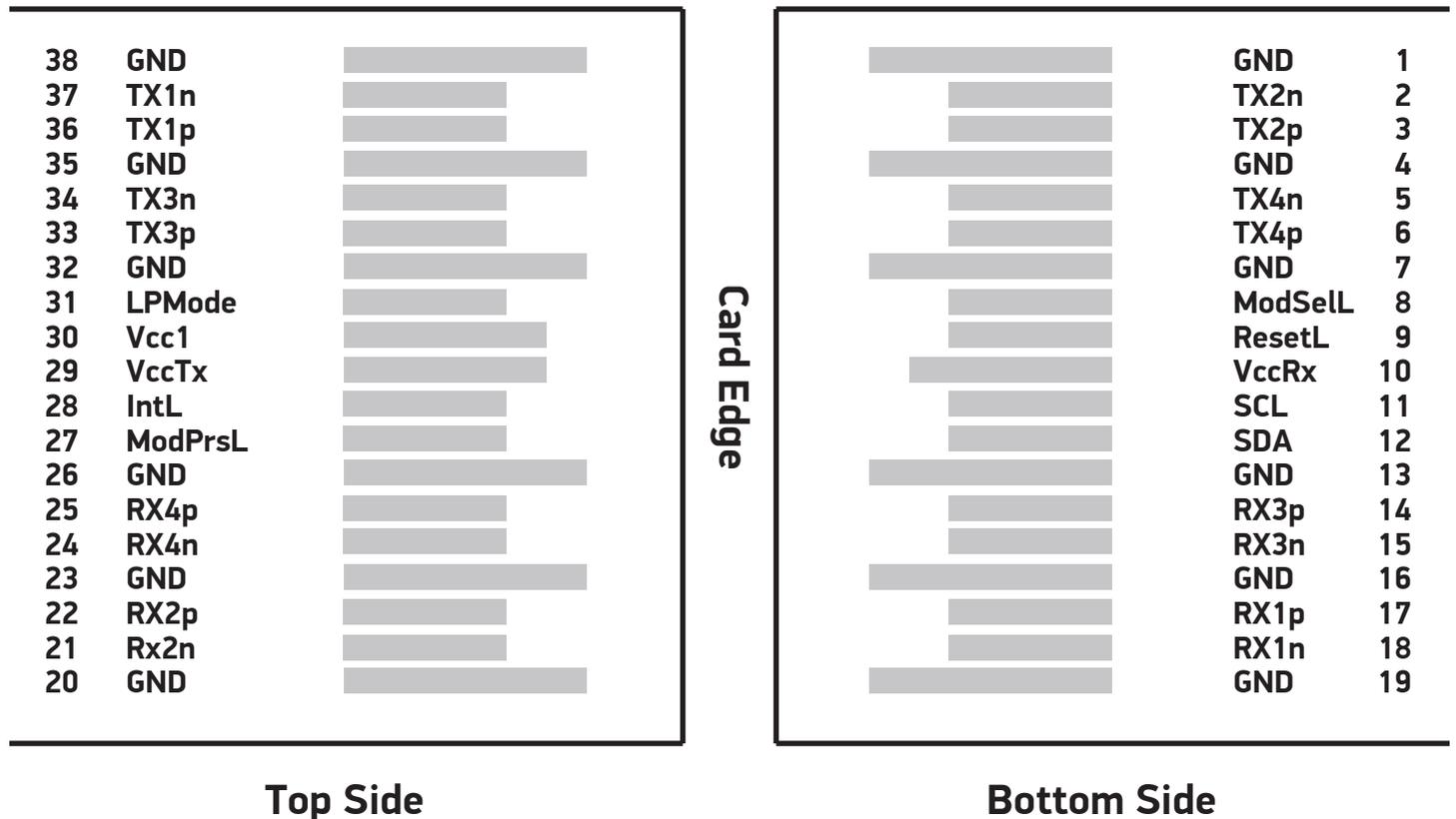
Description

The ET6401-SR4 QSFP+ transceiver is designed for 40 Gb/s links over multimode fiber. The transceiver integrates a four-channel VCSEL array and a four-channel PIN photodiode array. Each channel can operate at 10.3125 Gb/s up to 100 m using OM3 or 150 m using OM4 MMF. The transceiver is compliant with the QSFP+ MSA and IEEE 802.3ba.

Ordering Information

Part Number	Transmitter	Output Power	Sensitivity	Reach	Temp	DDM	RoHS
ET6401-SR4	850 nm	-7.6 ~ +2.4 dBm	<-5.4 dBm	OM4: 150 m OM3: 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	-	-	10.3125	-	Gb/s	

Transceiver Electrical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Module Supply Current	Icc	-	-	430	mA	
Power Dissipation	PD	-	-	1.5	W	

Transmitter Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Launch Optical Power	Po	-7.6	-	+2.4	dBm	-
Extinction Ratio	ER	3	-	-	dB	
Center Wavelength Range	λ_c	840	850	860	nm	-

Receiver Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Center Wavelength	λ_c	840	850	860	nm	-
Receiver OMA Sensitivity	RxSENS	-	-	-5.4	dBm	-
Receiver Overload (Pavg)	Pol	3.4	-	-	dBm	-

Warranty

Please check 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.

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