100G 2 km QSFP28 Transceiver

ET7402-CWDM4

Product Features

- Compliant with IEEE Std 802.3ba, 100G CWDM4 MSA
- Compliant with QSFP28 MSA
- 4 x 25 Gb/s CWDM transmitters
- 4 channels PIN photo detector
- Single +3.3 V power supply
- Class 1 laser safety certified
- Power consumption less than 3.5 W
- Commercial Operating Temperature: 0°C to +70°C
- Up to 2 km on SMF
- Duplex LC connector
- RoHS Compliant

Applications

- 100GBASE-CWDM4 Ethernet links
- Data center

Descriptions

The ET7402-CWDM4 transceiver module is designed for 100 Gigabit Ethernet over single mode fiber. The transceiver is compatible with the QSFP28 MSA and IEEE 802.3ba. Digital diagnostics functions are available via the I2C interface, as specified by the QSFP28 MSA.

Ordering Information

Part Number	Transmitter	Output Power	Sensitivity	Reach	Temp	DDM	RoHS
ET7402-CWDM4	1310	-6.5~ +2.5 dBm	< -10 dBm	2 km	0~ 70 °C	Available	Compliant

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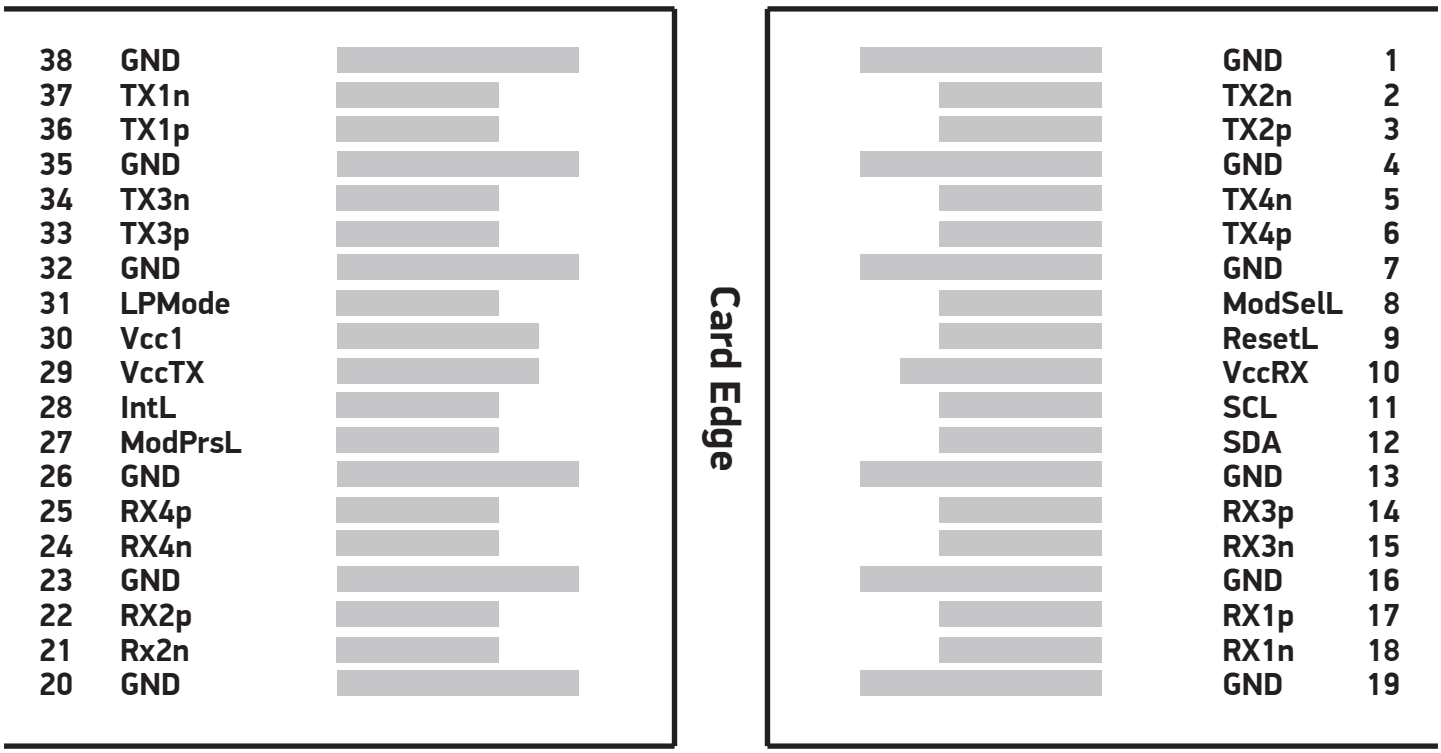
Pin Description



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	-	-	1100	mA	
Power Dissipation	P_D	-	-	3.5	W	

Transmitter Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Launch Optical Power per Lane	Po	-6.5	-	+2.5	dBm	-
Center Wavelength Range	L1	1294.53	1295.56	1296.59	nm	-
	L2	1299.02	1300.05	1301.09	nm	
	L3	1303.54	1304.58	1305.63	nm	
	L4	1308.09	1309.14	1310.19	nm	
Extinction Ratio	EX	3.5	-	-	dB	-

Receiver Optical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Center Wavelength	L1	1294.53	1295.56	1296.59	nm	-
	L2	1299.02	1300.05	1301.09	nm	-
	L3	1303.54	1304.58	1305.63	nm	-
	L4	1308.09	1309.14	1310.19	nm	-
Sensitivity per Channel (OMA)	S	-	-	-10.0	dBm	1
Overload (each channel)	P_{OL}	2.5	-	-	dBm	1

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.

About Edgecore Networks Corporation

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