

100G 2 km QSFP28 Transceiver

ET7402-CWDM4



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.

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

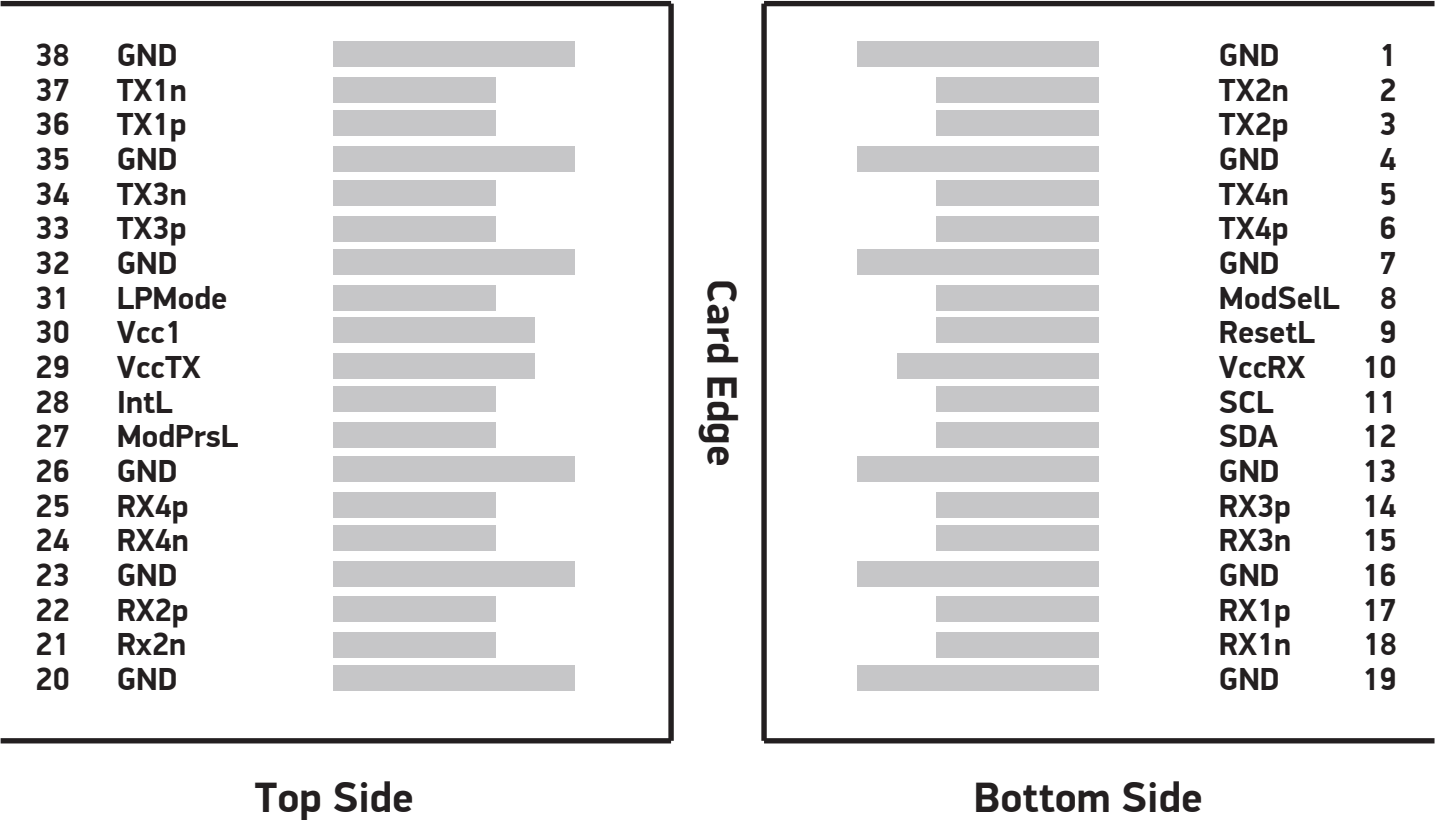
Applications

- 100GBASE-CWDM4 Ethernet links
- Data center

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

Pin Description



Top Side

Bottom Side

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	Type	Maximum	Unit
Operating Temperature	Tc	0	25	70	°C
Supply Voltage	Vcc	3.135	3.3	3.465	V
Data Rate			25.78125	-	Gb/s

Transceiver Electrical Characteristics

Parameter	Symbol	Minimum	Type	Maximum	Unit
Module Supply Current	Icc	-	-	1100	mA
Power Dissipation	PD	-	-	3.5	W

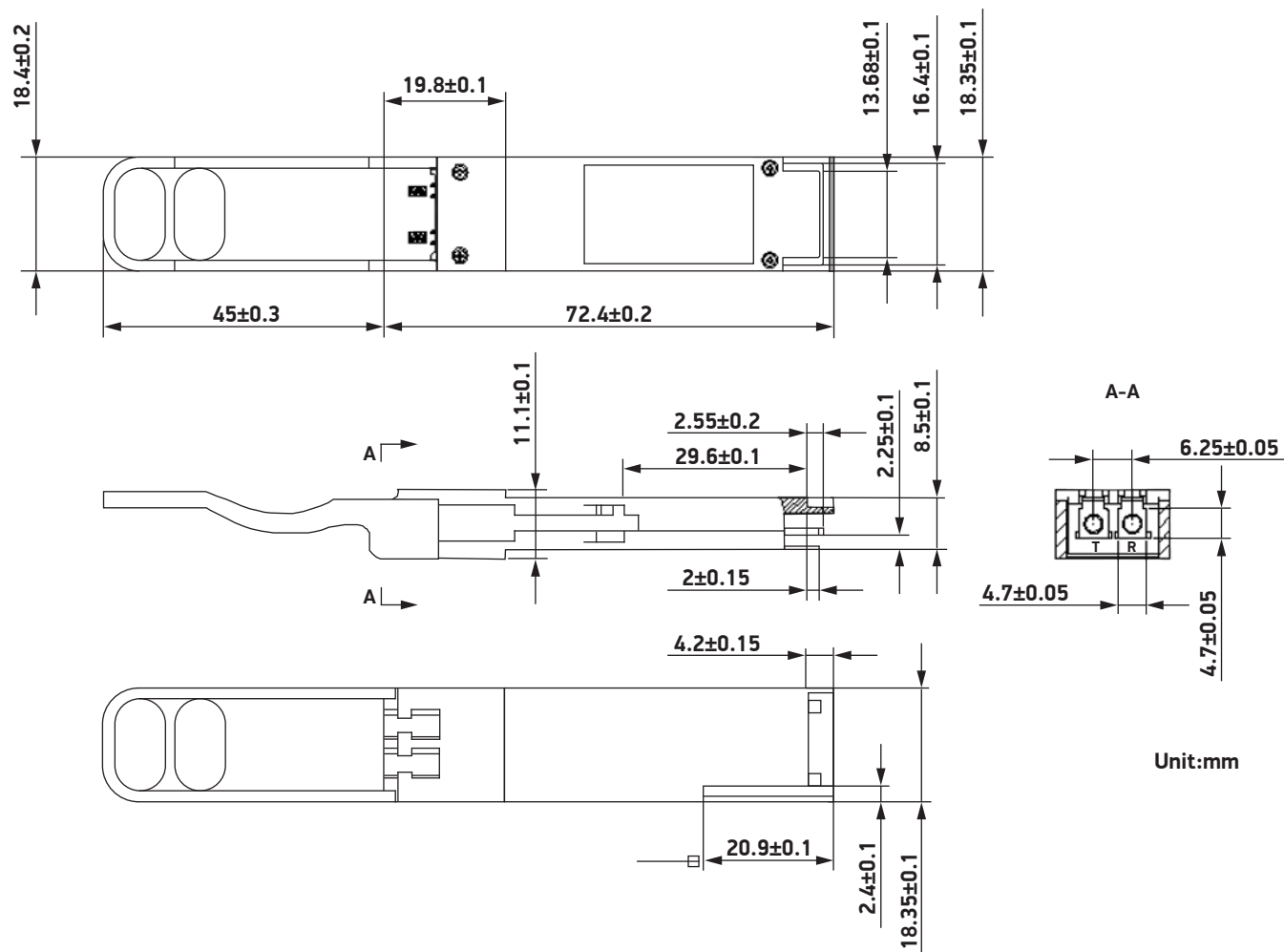
Transmitter Optical Characteristics

Parameter	Symbol	Minimum	Type	Maximum	Unit
Launch Optical Power per Lane	Po	-6.5	-	+2.5	dBm
Center Wavelength Range	L1	1264.5	1271	1277.5	nm
	L2	1284.5	1291	1297.5	nm
	L3	1304.5	1311	1317.5	nm
	L4	1324.5	1331	1337.5	nm
Extinction Ratio	EX	3.5	-	-	dB

Receiver Optical Characteristics

Parameter	Symbol	Minimum	Type	Maximum	Unit
Center Wavelength	L1	1264.5	1271	1277.5	nm
	L2	1284.5	1291	1297.5	nm
	L3	1304.5	1311	1317.5	nm
	L4	1324.5	1331	1337.5	nm
Sensitivity per Channel (OMA)	S	-	-	-10.0	dBm
Overload (each channel)	POL	2.5	-	-	dBm

Mechanical Specifications



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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