

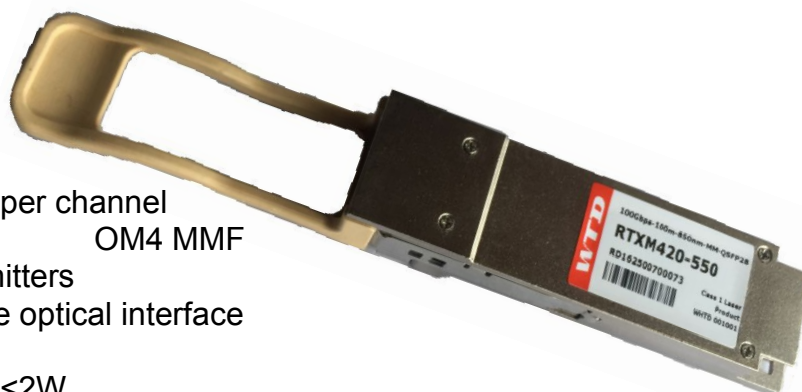
100G QSFP28 For SR4 Transceiver

This product is designed for fiber-communication based on optical-electrical technology. The product is an integrated module containing a micro-optic component and semiconductor material. The module could implement optical-electrical conversion and electrical-optical conversion function. It could be used at key locations in optical networks like 100GBASE Ethernet.

DESCRIPTION

Features

- Up to 27.952Gb/s data rate per channel
- Distance up to 300m on OM4 MMF
- 850nm VCSEL array transmitters
- Single 1x12 MPO receptacle optical interface
- Single +3.3V power supply
- Maximum power dissipation<2W
- International Class 1 laser safety certified
- Operating temperature range: 0°C ~ +70°C
- Compliant with RoHS6



Applications

- 100GBASE-SR4 Ethernet

Standards

- Compliant with SFF-8636 (V2.6)
- Compliant with IEEE Std 802.3bm 2015
- Compliant with SFF-8665 (V1.9),SFF-8661(V2.3)and SFF-8679(V1.7)

SPECIFICATION

Recommended Operating Conditions

Parameter	Units	MIN.	TYP.	MAX.	Notes
Recommended Operating Conditions					
Operating Case Temperature	°C	0		+70	
Power Supply Voltage	V	3.135	3.3	3.465	
Data Rate, each Lane	Gbps		25.78125		
Control Input Voltage High	V	2		Vcc	
Control Input Voltage Low	V	0		0.8	
Link Distance with G.652	M			300	

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Regulatory Compliance

Feature	Test Method	Performance
RoHS	BS EN 1122: 2001 US EPA METHOD 3050B US EPA METHOD 3052 US EPA METHOD 3060A	Pb <1000ppm Cr6+ <1000ppm Hg <1000ppm PBB <1000ppm PBDE <1000ppm Cd <100ppm
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883E Method 3015.7	Class 1 (>1.5kV) – Human Body Model
Electrostatic Discharge (ESD) Immunity	IEC61000-4-2	LV4(Air discharge 15kV,Contact discharge 8kV) Performance criterion B
Electromagnetic Interference (EMI)	CISPR22 ITE Class B FCC Class B CENELEC EN55022 VCCI Class 1	Compliant with standard
Immunity	IEC61000-4-3 Class 2	Typically show no measurable effect from a 3 V/m field swept from 80 to 1000MHz applied to the transceiver without a chassis enclosure.
Safety	FDA	
	UL	
	TUV	
	CE	

Ordering Information

Part No	Product Description	Data Rate	Tx	Tx Power (dBm)	Rx	OMA Sensitivity (dBm)	Temp (°C)	Reach (m)	Power (W)
RTXM420-550	QSFP28 SR4	4*25G	850nm VCSEL	-4~ 2.4	PIN	-7.4	0~70	100	<2
RTXM420-551	QSFP28 eSR4	4*25G	850nm VCSEL	-4 ~ 2.4	PIN	-7.4	0~70	300	<2
RTXM420-552	QSFP28 SR4	4*28G	850nm VCSEL	-4 ~ 2.4	PIN	-7.4	0~70	100	<2
RTXM420-553	QSFP28 eSR4	4*28G	850nm VCSEL	-4 ~ 2.4	PIN	-7.4	0~70	300	<2