



8.5Gb/s SFP+ 850nm Transceivers *RTXM228-851*

Features

- Compliant to SFP+ MSA
- Fully RoHS Compliant
- Up to 150m with 50µm OM3 MMF
- 850nm VCSEL Laser
- LC duplex connector
- Hot pluggable 20pin connector
- Low power consumption < 1.0W
- 0°Cto 70°C operating temperature range
- Single +3.3V±5% power supply

- Digital Monitoring SFF-8472 Rev 10 compliant
- Real time monitoring of:
 - Transmitted optical power
 - Received optical power
 - Laser bias current
 - Temperature
 - Supply voltage



Application

 2.125/4.25/8.5 Gb/s Fiber Channel

Standards

- FC-PI-4 Rev 7
- SFF-8431 Rev 4

SFF-8472 Rev 11

Descriptions

The RTXM228-851 850nm optical Transceiver supports high speed serial links over multimode optical fiber at signaling rates for use in Fiber Channel link up to 8.5Gb/s data rate, as well as related applications. The Transceiver is compliant with FC-PI-4, SFF-8431 and SFF-8432 for electrical and mechanical specifications. The transmitter converts serial CML electrical data into serial optical data. An open collector compatible Transmit Disable (Tx_Dis) is provided. When TX_DIS is asserted High, Transmitter is turned off. The receiver converts serial optical data into serial CML electrical data. An open collector compatible Loss of Signal is provided. The RX_LOS signal indicates insufficient optical power for reliable signal reception at the receiver. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472.

Block diagram

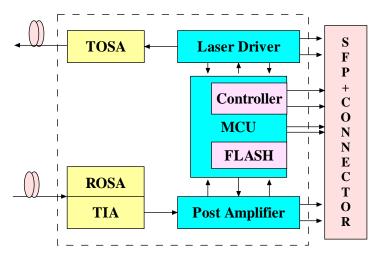


Figure 1 Transceiver functional diagram

Absolute Maximum Ratings

Parameter	Symbol	Unit	Min	Max
Storage Temperature Range	Ts	°C	-40	85
Relative Humidity	RH	%	0	95
Supply Voltage	V_{CC}	V	-0.3	4.0



Ordering Information

	Specifications								
Part No.	Package Data rate	Laser	Optical Power Detector	Sensitivity	Reach Top	Other	Application		
		Data rate	Lasei	Optical Power Detector	(OMA)		(OM3)	Other	
RTXM228-851	SFP+	8.5 Gb/s	850nm	-8.2~ OdBm PIN	76 µ W	0~70°C	150m	DDM	2.125/4.25/8.5GFC
			VCSEL	-6.2~ OUBIII PIN	7 O μ VV				

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