

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

Features

- *Compliant to SFP+ MSA*
- *Fully RoHS Compliant*
- *Up to 150m with 50 μ m OM3 MMF*
- *850nm VCSEL Laser*
- *LC duplex connector*
- *Hot pluggable 20pin connector*
- *Low power consumption <1.0W*
- *0°C to 70°C operating temperature range*
- *Single +3.3V \pm 5% power supply*
- *Digital Monitoring SFF-8472 Rev 10 compliant*
- *Real time monitoring of*
 - n *Transmitted optical power*
 - n *Received optical power*
 - n *Laser bias current*
 - n *Temperature*
 - n *Supply voltage*

Application

• 2.125/4.25/8.5 Gb/s Fiber Channel

Standards

• FC-P1-4 Rev 7

• SFF-8472 Rev 11

• SFF-8431 Rev 4

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-P1-4, 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

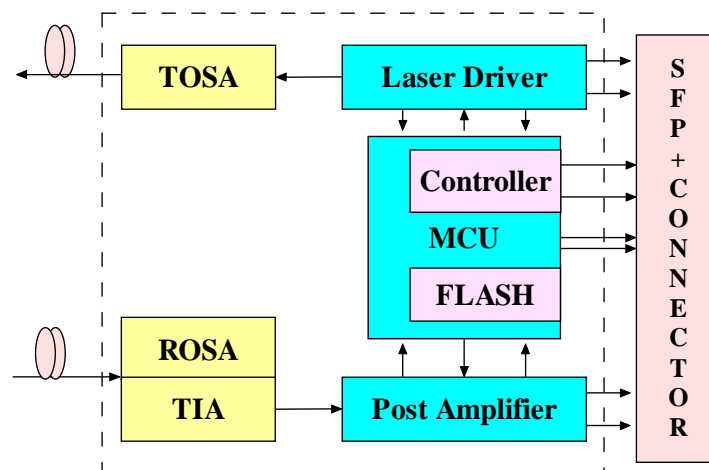


Figure 1 Transceiver functional diagram

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

Part No.	Specifications									Application
	Package	Data rate	Laser	Optical Power	Detector	Sensitivity (OMA)	Top	Reach (OM3)	Other	
RTXM228-851	SFP+	8.5 Gb/s	850nm VCSEL	-8.2~ 0dBm	PIN	76 W	0~70℃	150m	DDM	2.125/4.25/8.5GFC

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