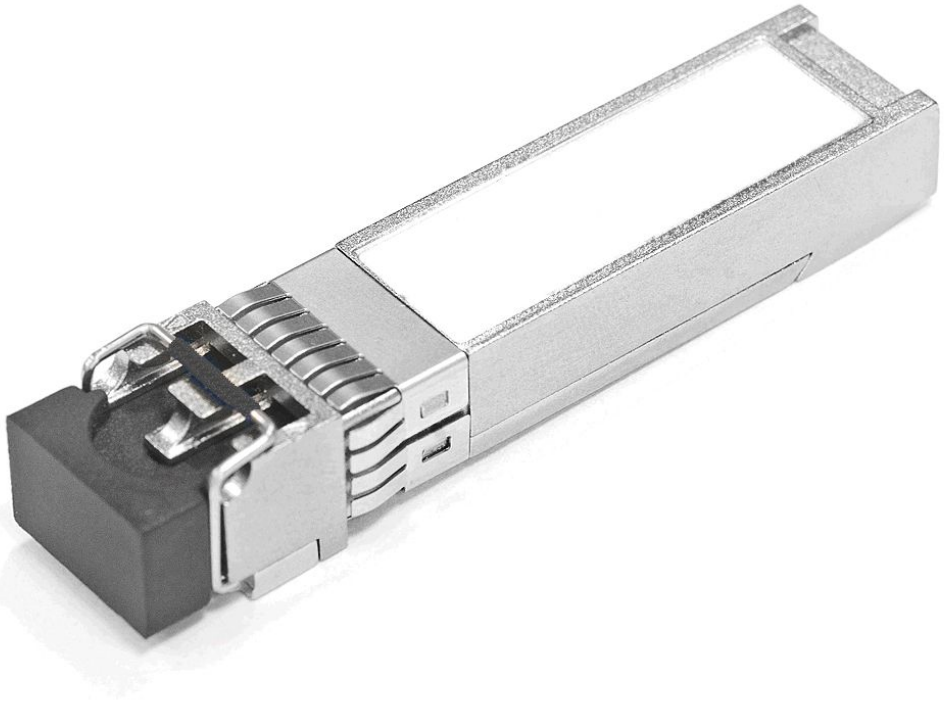

16GFC SFP+ 850nm Transceivers

RTXM228-561

Features

- *Compliant to SFP+ MSA*
- *Fully RoHS Compliant*
- *All metal housing for superior EMI performance*
- *IPF compliant mechanics SFF-8432*
- *Operating data rate14.025Gb/s*
- *850nm VCSEL Laser*
- *High sensitivity PIN photodiode and TIA*
- *LC duplex connector*
- *Hot pluggable 20pin connector*
- *Rx_LOS: Loss of power (DC)*
- *Enhanced operational feature with Loopback WRAP Functionality*
- *100m on high-bandwidth 50/125um (OM3) MMF*
- *Low power consumption <1.0W*
- *0℃ to 70℃ operating temperature range*
- *Single +3.3V power supply*
- *Digital Monitoring SFF-8472 Rev 11 compliant*
- *Real time monitoring of:*
  - *Transmitted optical power*
  - *Received optical power*
  - *Laser bias current*
  - *Temperature*
  - *Supply voltage*

Application

- *Tri-Rate 4.25/8.5/14.025Gb/s Fiber Channel*

Standards

- *FC-PI-5 Rev 6.00*
- *SFF-8432*
- *SFF-8431 Rev 4*
- *SFF-8472 Rev 11*

Descriptions

The RTXM228-561 850nm VCSEL 16GFC Transceiver is designed to transmit and receive serial optical data links up to 14.025Gb/s over multimode fiber. The Transceiver is compliant with FC-PI-5, SFF-8432, SFF-8472, and applicable portions of SFF-8431. 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 Power 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

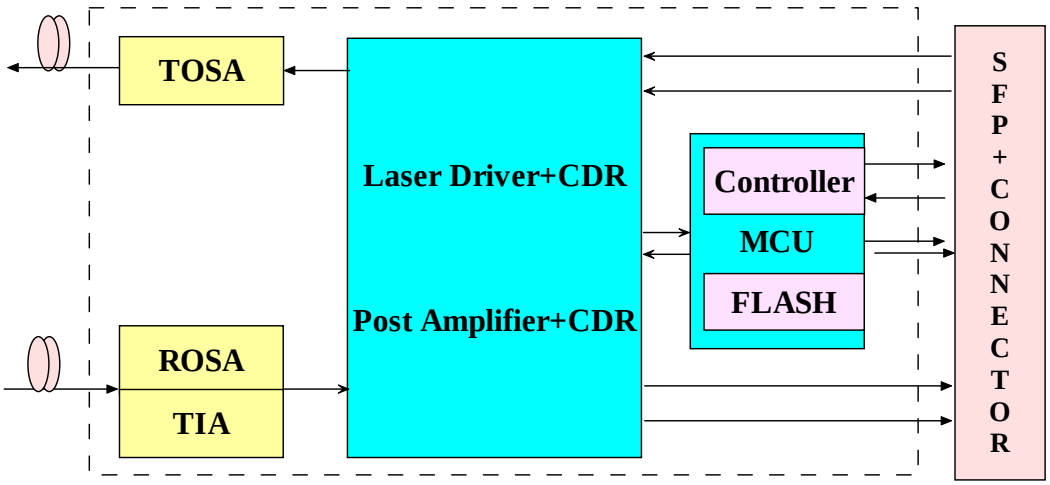

Figure 1 Transceiver functional diagram

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