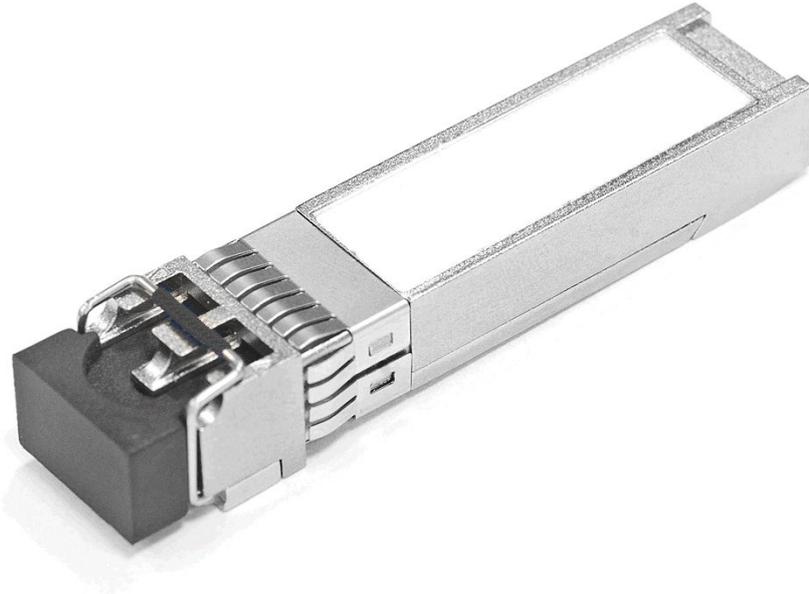


10Gb/s SFP+ 850nm Transceivers

RTXM228-553



Product Introduction

The RTX228-553 850nm VCSEL 10Gigabit Transceiver is designed to transmit and receive serial optical data links up from 8.5 Gb/s to 10.51875 data rate over multimode fiber. The Transceiver is compliant with FC-PI-4, 10G FC, IEEE 802.3ae, SFF-8432, 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 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.

Features

- Compliant to SFP+ MSA
- Fully RoHS Compliant
- All metal housing for superior EMI performance
- IPF compliant mechanics SFF-8432
- Operating data rate 8.5-10.5Gb/s
- 850nm VCSEL Laser
- High sensitivity PIN photodiode and TIA
- LC duplex connector
- Hot pluggable 20pin connector
- Low power consumption <1.0W
- -40°C to 85°C operating wide temperature range
- Single +3.3V±5% 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

Applications

- 10GBASE-SR
- 8.5/10.5 Gb/s Fiber Channel
- Wireless and cellular base station

Standards

- FC-PI-4 Rev 7.00
- 10GFC Rev 4.0
- IEEE 802.3ae 10GBASE-SR
- SFF-8431 Rev 4
- SFF-8472 Rev 11

Ordering Information

Part No.	Specifications									Application
	Package	Data rate(Gb/s)	Laser	Optical Power (dBm)	Detector	Sensitivity (OMA) dBm	Top	Reach (km)	Other	
RTXM228-553	SFP+	8.5~10.5	850nm VCSEL	-7.3~-1.0dBm	PIN	< -11.1dBm	-40~85°C	300m	DDM	10GBAS E-SR 8 GFC, 10 GFC

Block diagram

