Product Introduction

The RTXM228-610 850nm optical Transceiver supports high speed serial links over multimode optical fiber at signaling rates for wireless base station applications involving the OBSAI or CPRI protocals, as well as related applications. The Transceiver is compliant with SFF-8431 and SFF

- Hot pluggable 20pin connector
- Low power consumption <1.0W
- -40

Ordering Information

Part No.	Specifications								Application
	Package	Data rate	Laser	Optical Power	Detector	Sensitivity (OMA)	Top	Reach (OM3)	Other	
RTXM228-610	SFP+	6.1445 Gb/s	850nm VCSEL	-8.0~ -1.0dBm	PIN	< -11.5dBm	-40~85 °C	300m	DDM	OBSAI/ CPRI 2/4 GFC

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

Recommended Operating Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Operating Case Temperature Range	Tc	°C	-40		85
Power Supply Voltage	Vcc	V	3.14	3.3	3.46
Bit Rate	BR	Gb/s	2.4576		6.25
Bit Error Ratio	BER				10^{-12}
Link Length on 50um MMF (OM3) (2000MHz.km)	L	m			300

Electric Ports Definition

Parameter	Symbol	Unit	Min	Typ	Max	Note
Supply Voltage	V_{CC}	V	3.14	3.3	3.46	
Supply Current	Icc	mA		180	285	
Transmitter						
Input Differential Impedance	R_{IN}	A	80	100	120	1
Differential Data Input Swing	V_{IN}	mVp-p	180		700	
Transmit Disable Voltage	V_{DIS}	V	2		V_{CCHOST}	
Transmit Enable Voltage	V_{EN}	V	V_{EE}		V_{EE}+0.8	
Transmit Fault Assert Voltage	V_{FA}	V	2.2		V_{CCHOST}	
Transmit Fault De-Assert Voltage	V_{FDA}	V	V_{EE}		V_{EE}+0.4	
Receiver						
Differential Data Output Swing	V_{OD}	mVp-p	300		850	
Output Rise Time	t_{RISE}	ps	28			
Output Fall Time	t_{FALL}	ps	28			
LOS Fault	V_{LOSFT}	V	2		V_{CCHOST}	
LOS Normal	V_{LOSNR}	V	V_{EE}		V_{EE}+0.8	