

# 6 Gbps SFP+ 1310nm Transceivers

The RTX228-601 6Gigabit 1310nm FP Transceiver is designed to transmit and receive serial optical data links up from 2.1 Gb/s to 6.25 Gb/s data rate over singlemode fiber. The Transceiver is compliant with 2/4GFC, CPRI and applicable portions of SFF-8431. Digital diagnostics functions are available via a 2-wire serial interface, as specified in SFF-8472.

## Specifications

(tested under recommended operating conditions, unless otherwise noted)

## Ordering Information

Part No.

Package

Data

rate(Gb/s)

Specifications

Application

# 6Gb/s 2km SFP+ 1310nm Transceivers

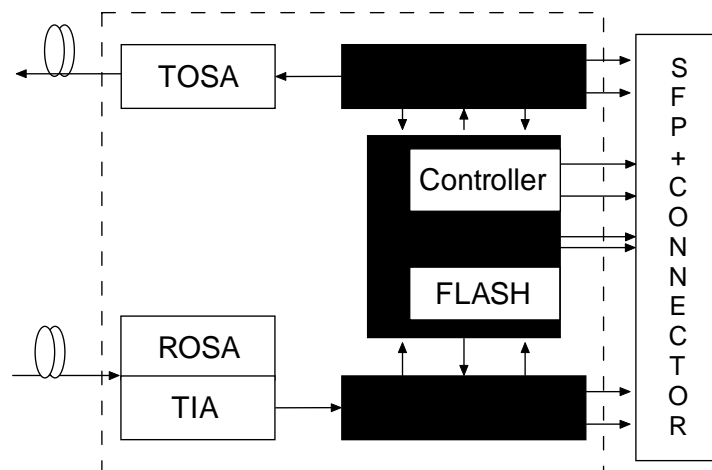
## Absolute Maximum Ratings

Parameter	Symbol	Unit	Min	Max
Storage Temperature Range	Ts	°C	-40	85
Relative Humidity	RH	%	0	95
Supply Voltage	V <sub>CC</sub>	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	V <sub>CC</sub>	V	3.14	3.3	3.46
Bit Rate	BR	Gb/s	2.125	6.144	6.25
Bit Error Ratio	BER				10 <sup>-12</sup>
Max Supported Link Length	L	km			2

## Principle diagram



## Electric Ports Definition

Parameter	Symbol	Unit	Min	Typ	Max	Note
Supply Voltage	V <sub>CC</sub>	V	3.14	3.3	3.46	
Supply Current	I <sub>CC</sub>	mA			345	
Transmitter						
Input Differential Impedance	R <sub>IN</sub>	»	80	100	120	1
Differential Data Input Swing	V <sub>IN</sub>	mVp-p	180		700	
Transmit Disable Voltage	V <sub>DIS</sub>	V	2		V <sub>CCHOST</sub>	
Transmit Enable Voltage	V <sub>EN</sub>	V	V <sub>EE</sub>		V <sub>EE</sub> +0.8	
Transmit Fault Assert Voltage	V <sub>FA</sub>	V	2.2		V <sub>CCHOST</sub>	
Transmit Fault De-Assert Voltage	V <sub>FDA</sub>	V	V <sub>EE</sub>		V <sub>EE</sub> +0.4	