

10Gbps XFP Optical Transceiver RTX226-5XX

Specifications

(Tested under recommended operating conditions, unless otherwise noted)

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Ordering Information

Absolute Maximum Ratings

Parameter	Symbol	Unit	Min	Max
Supply Voltage 1	V _{CC3}	V	-0.5	4.0
Supply Voltage 2	V _{CC5}	V	-0.5	6.0
Storage Temperature	T _s	°C	-40	85
Operating Case Temperature	T _c	°C	-5	70
Relative Humidity (Non condensation)	-	%	5	90

Recommended Operating Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Operating Case Temperature	T _c	°C	-5	-	70
Supply Voltage 1	V _{CC3}	V	3.13	3.3	3.47
Supply Current 1	I _{CC3}	mA	-	-	750
Supply Voltage 2	V _{CC5}	V	4.75	5.0	5.25
Supply Current 2	I _{CC5}	mA	-	-	500

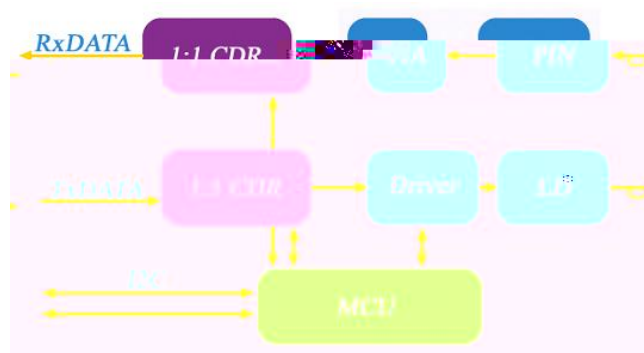
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Low Speed Electrical Interface

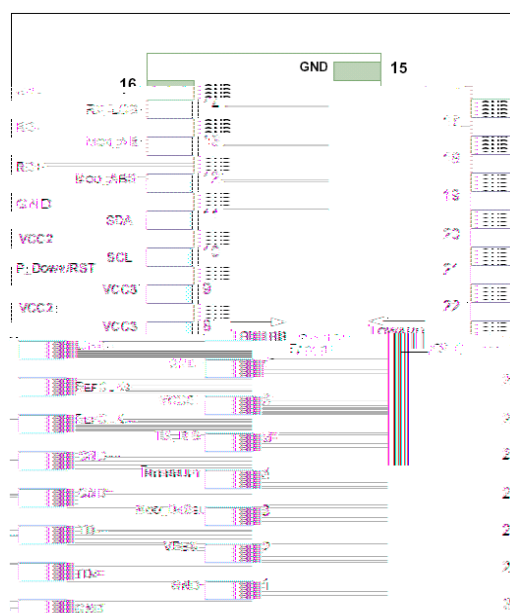
Parameter	Symbol	Unit	Min	Max	Note
XFP Tx_Dis, P_Down/RST	V_{IH}	V	2.0	$V_{cc3}+0.3$	
	V_{IL}	V	-0.3	0.8	
XFP Interrupt, Mod_NR, Rx_Los	V_{OH}	V	$V_{dd3}-0.5$	$V_{dd3}+0.3$	1
	V_{OL}	V	0.0	0.4	
XFP SCL and SDA Input	V_{IH}	V	$V_{dd3}*0.7$	$V_{dd3}+0.5$	1
	V_{IL}	V	-0.3	$V_{dd3}*0.3$	
XFP SCL and SDA Output	V_{OH}	V	$V_{dd3}-0.5$	$V_{dd3}+0.3$	
	V_{OL}	V	0.0	0.4	
Leakage Current	I_L		-10	10	
I ² C Clock Rate		KHz		400	

Note1: V_{dd3} is host +3.3V power supply.

Block Diagram



Pin Description



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Pin	Logic	Symbol	Name/Description	Note
1		GND	Module Ground	1
2		VEE5	Optional -5.2V Power Supply (Not Required)	

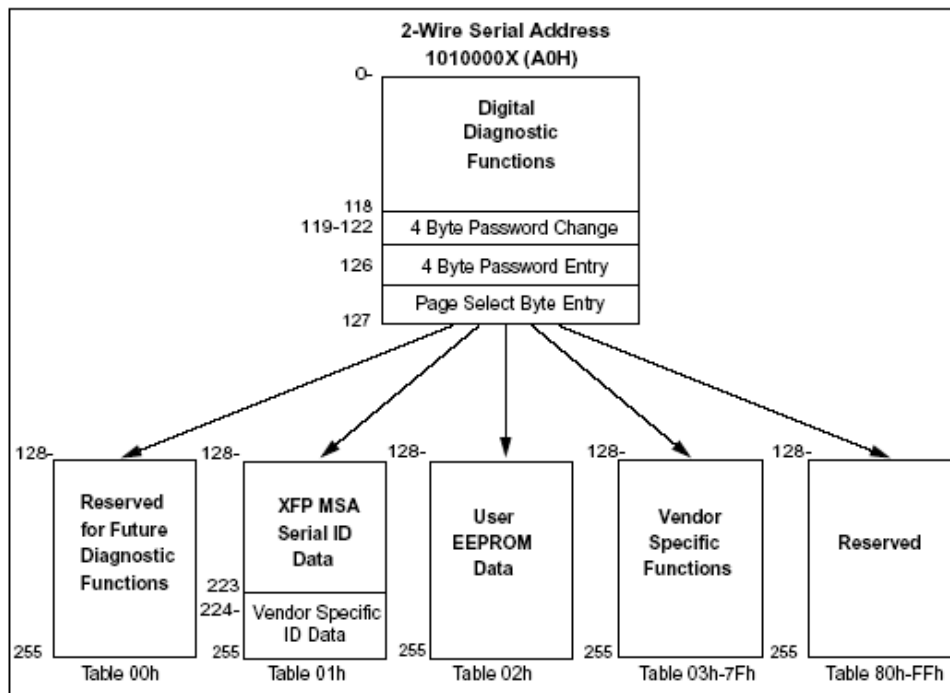
3 LVTTTL-I Mod_DeSel

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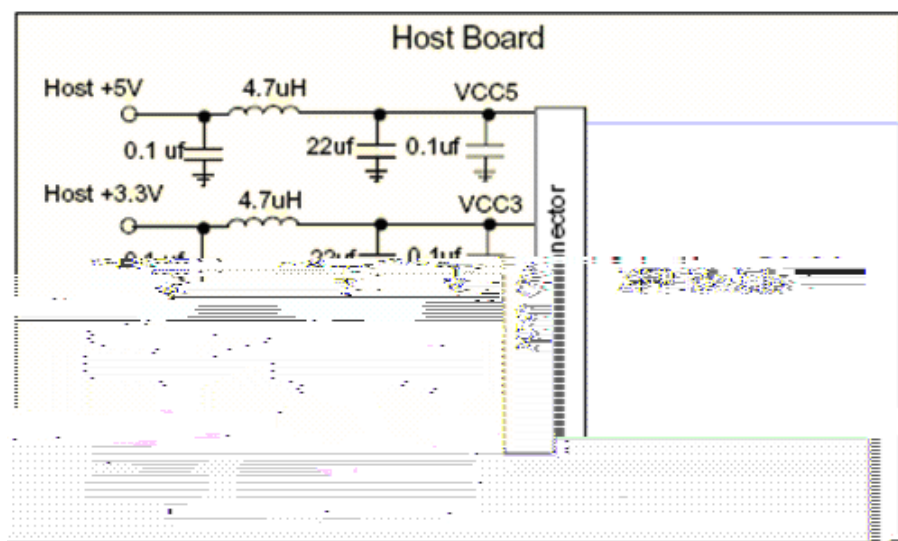
Digital Diagnostic Functions

As defined by the XFP MSA, digital diagnostic functions are provided via a 2-wire serial interface, which allows real-time access to the following operating parameters:

- Transceiver Temperature
- Tx Bias Current
- Tx Optical Power
- RX Received Optical Power
- Transceiver +3.3V Supply Voltage
- Laser Temperature

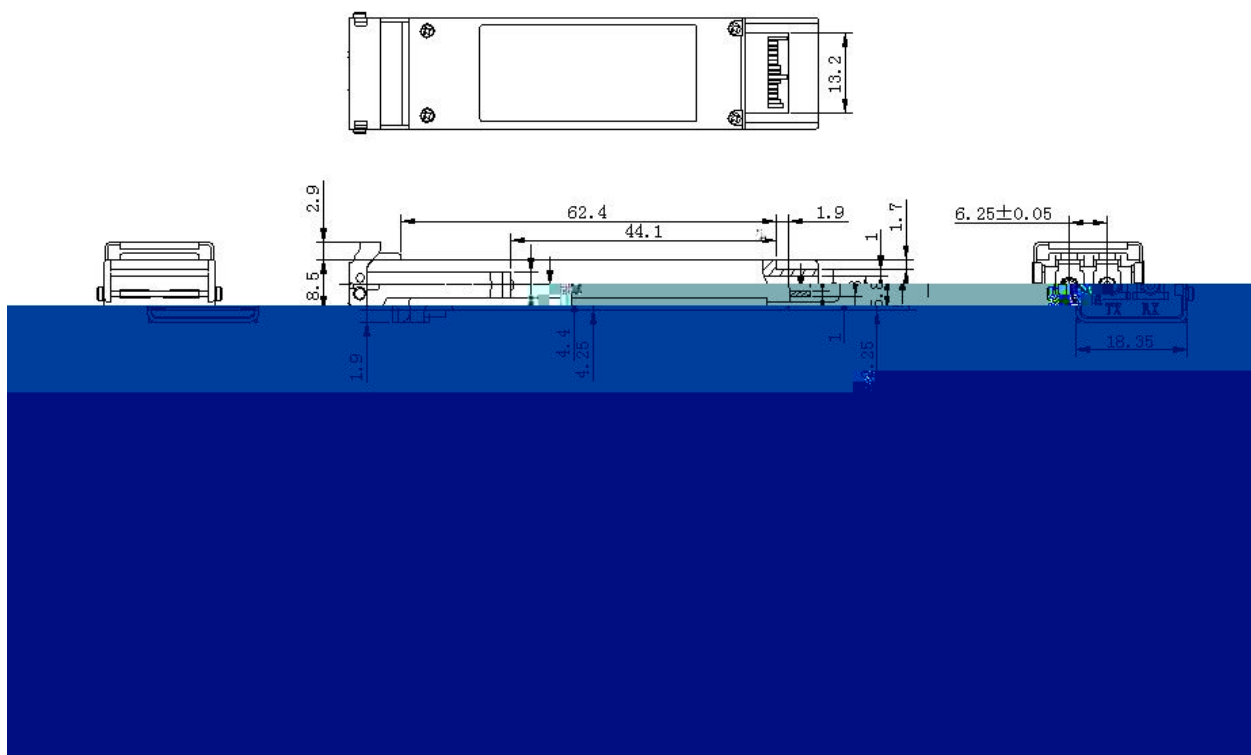


Typical Application Circuit for Power Supply



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Package Outline



Regulatory Compliance

Feature	Test Method	Performance
Laser Eye Safety	FDA 21 CFR 1040.10 and 1040.11 IEC 60825-1: 1994+ A11: 1996+ A2: 2001 IEC 60825-2: 2004 + A1: 2006 EN 60825-1:1994+A1:2002+A2:2001 EN 60825-2: 2004	Compliant with Class 1 laser product
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883E Method 3015.7 Human Body Model	Class 1 (>1.5kV)
Electrostatic Discharge (ESD) Immunity	IEC 61000-4-2: 2001	Class 2 (>4.0kV)
Electromagnetic Interference (EMI)	FCC Part 15 Subpart J Class B CISPR22:1997+A1:2000+A2:2002, Class B EN55022:1998+A1:2000+A2:2003, Class B	Compliant with standards

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Product Code	Frequency(THz)	Center Wavelength(nm)
RTXM226-518	191.8	1563.05
RTXM226-519	191.9	1562.23
RTXM226-520	192.0	1561.42
RTXM226-521	192.1	1560.61
RTXM226-522	192.2	1559.79
RTXM226-523	192.3	1558.98
RTXM226-524	192.4	1558.17
RTXM226-525	192.5	1557.36
RTXM226-526	192.6	1556.55
RTXM226-527	192.7	1555.75
RTXM226-528	192.8	1554.94
RTXM226-529	192.9	1554.13
RTXM226-530	193.0	1553.33
RTXM226-531	193.1	1552.52