

RJ45 SFP Module

Features

- ◇ Support UL and RoHS
- ◇ Up to 1.25Gbps bi-direction data links
- ◇ Hot-pluggable SFP footprint
- ◇ Fully metallic enclosure for low EMI
- ◇ Low power dissipation (1.05 W typical)
- ◇ Compact RJ-45 connector assembly
- ◇ Support 1000BASE-T operation in host systems with SGMII interface
- ◇ 100m transmission over unshielded twisted pair(UTP) Category 5 cable
- ◇ Access to physical layer IC via 2-wire serial bus



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Description

RJ45 SFP module 10/100/1000BASE-T Copper Small Form Pluggable (SFP) are based on the SFP Multi Source Agreement (MSA). It is compatible with the Gigabit Ethernet and 10/100/1000BASE-T standards as specified in IEEE Standard 802.3

Parameter

Item	Description				
Absolute Maximum Ratings					
Parameter	Symbol	Min.	Typical	Max	Unit
Storage Temperature	T _s	-40		+85	°C
Maximum Supply Voltage	V _{cc}	-0.5		4.0	v
Electrical Characteristics					
Parameter	Symbol	Min	Typical	Max	Unit
Supply Current	I _{cc}		300	350	mA
Input Voltage	V _{cc}	3.13	3.3	3.47	V
Surge Current	I _{surge}			30	mA
General					
Parameter	Symbol	Min	Typical	Max	Unit
Distance				100	m
Data Rate			1000		M
Parameter	Symbol	Min	Typical	Max	Unit
Operating Temperature	T _{op}	0		70	°C



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Supply Voltage	V _{CC}	3.14	3.3	3.46	V
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Applications

- ◇ LAN 1000Base-T(10/100/1000Base-T)
- ◇ Switch to switch interface
- ◇ Router/Server interface

Notice

1. PHY disabled on TDIS > 2.0V or open, enabled on TDIS < 0.8V,used to reset the module.
 2. Should be pulled up with 4.7k – 10k Ohms on host board to a voltage between 2.0 V and 3.6 V.
- MOD_DEF(0) pulls line low to indicate module is plugged in.