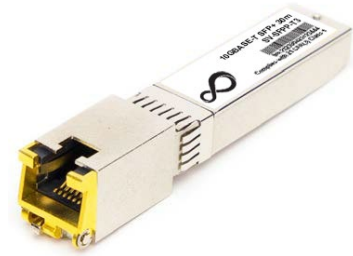


SV-SFPP-T3A

100Mbps /1000Mbps/ 10Gbps 10GBase-T
(RJ45) up to 30m



Features

- Support 10Gbase-T / 1000base-T
- Support 10Gbase-R on host port
- Hot-pluggable SFP footprint
- Compact RJ-45 connector assembly
- RoHS compliant and lead-free
- Single +3.3V power supply
- 10 Gigabit Ethernet over Cat 6a cable
- Ambient Operating temperature: 0°C to +70°C

Ordering Information

Part No	Description
SV-SFPP-T3A	Starview 100Mbps /1000Mbps/ 10Gbps Copper SFP+ module 10GBase-T (RJ45), distance up to 30m

Environmental Specifications

Parameter	Symbol	Min	Typ	Max	unit	Notes/Conditions
Operating Temperature	Top	0		60	°C	Case temperature
Storage Temperature	Tsto	-40		85	°C	Ambient temperature

+3.3V Volt Electrical Power Interface

transceiver that offers 10 Gb/s communication over this type of media.

Parameter	Symbol	Min	Typ	Max	unit	Notes/Conditions
Supply Current	Is		900	1200	mA	4.0W max power over full range of voltage and temperature. Note1
Input Voltage	Vcc	3.13	3.3	3.47	V	Referenced to GND
Maximum Voltage	Vmax			4	V	
Surge Current	Isurge		TBD		mA	Hot plug above steady state current. Note1

Note1: Power consumption and surge current are higher than the specified values in the SFP MSA

Low-Speed Signals

Parameter	Symbol	Min	Max	unit	Notes/Conditions
SFP Output LOW	VOL	0	0.5	V	4.7k to 10k pull-up to host_Vcc, measured at host side of connector
SFP Output HIGH	VOH	host_Vcc - 0.5	host_Vcc + 0.3	V	4.7k to 10k pull-up to host_Vcc, measured at host side of connector
SFP Input LOW	VIL	0	0.8	V	4.7k to 10k pull-up to Vcc, measured at SFP side of connector
SFP Input HIGH	VIH	2	Vcc + 0.3	V	4.7k to 10k pull-up to Vcc, measured at SFP side of connector

High-Speed Electrical Interface

Parameter	Symbol	Min	Typ	Max	unit	Notes/Conditions
Transmission Line-SFP						
Line Frequency	fL		125		MHz	5-level encoding, per IEEE 802.3
Tx Output Impedance	Zout,TX		100		Ohm	Differential, for all frequencies between 1MHz and 125MHz
Rx Input Impedance	Zin,RX		100		Ohm	Differential, for all frequencies between 1MHz and 125MHz
Host-SFP						
Single ended data input swing	Vinsing	250		1200	mV	Single ended
Single ended data output swing	Voutsing	350		800	mV	Single ended
Rise/Fall Time	T _r ,T _f		175		psec	20%-80%
Tx Input Impedance	Zin		50		Ohm	Single ended
Rx Output Impedance	Zout		50		Ohm	Single ended