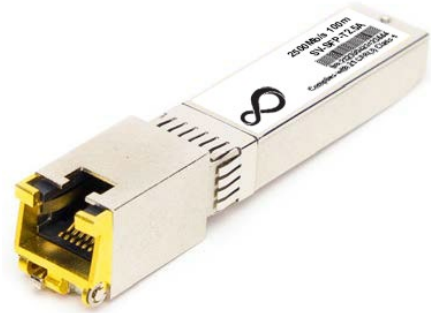


## SV-SFP-T2.5A

2500Base-TX (RJ45), up to 100m



### Features

- Support 2.5Gbase-T on line port
- Support 2.5Gbase-X on host port
- Hot-pluggable SFP footprint
- Compact RJ-45 connector assembly
- RoHS compliant and lead-free
- Single +3.3V power supply
- 2.5 Gigabit Ethernet over Cat 5A cable
- Ambient Operating temperature: 0°C to +70°C
- Power dissipation <1.5W

### Ordering Information

Part No	Description
<b>SV-SFP-T2.5A</b>	Starview SFP 1Gbps Copper module 2500Base-TX (RJ45), distance up to 100m

## Environmental Specifications

Parameter	Symbol	Min	Typ	Max	unit	Notes/Conditions
Operating Temperature	Top	0		70	°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.

+3.3 Volt Electrical Power Interface						
Parameter	Symbol	Min	Typ	Max	unit	Notes/Conditions
Supply Current	Icc			450	mA	
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						
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						
Differential data input swing	Vinsing	125		750	mV	Single ended
Differential data output swing	Voutsing	400		750	mV	Single ended
Rise/Fall Time	T <sub>r</sub> ,T <sub>f</sub>	30			psec	20%-80%
Tx Input Impedance	Zin		100		Ohm	Differential
Rx Output Impedance	Zout		100		Ohm	Differential