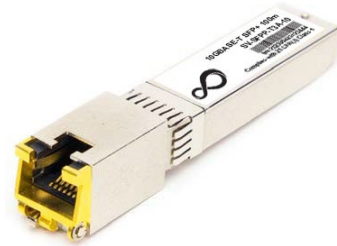


SV-SFPP-T3A-10

10Gbps Copper module, 10GBase-T (RJ45), distance up to 100m



Features

- Support 10Gbase-T / on line port
- 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
- Up to 100M reach over Cat 6a cable
- Lower power consumption

Ordering Information

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

+3.3V Volt Electrical Power Interface

+3.3 Volt Electrical Power Interface						
Parameter	Symbol	Min	Typ	Max	unit	Notes/Conditions
Supply Current	Is		540	600	mA	
Input Voltage	Vcc	3.13	3.3	3.47	V	Referenced to GND
Maximum Voltage	Vmax			4	V	

Low-Speed Signals

Low-Speed Signals, Electronic Characteristics					
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

High-Speed Electrical Interface, Transmission Line-SFP						
Parameter	Symbol	Min	Typ	Max	unit	Notes/Conditions
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
High-Speed Electrical Interface, Host-SFP						
Parameter	Symbol	Min	Typ	Max	unit	Notes/Conditions
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	Z_{in}	50	Ohm	Single ended
Rx Output Impedance	Z_{out}	50	Ohm	Single ended

General Specifications

General Specifications						
General Specifications	Symbol	Min	Typ	Max	unit	Notes/Conditions
General Specifications	BR		10		Gb/sec	IEEE 802.3 compatible. See Notes 1,2 below

Notes:

1. Clock tolerance is +/- 50 ppm