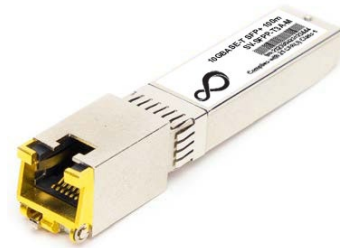


SV-SFPP-T3A-M



Multi-rate SFP+ 1/ 2.5/ 5/ 10Gbps Copper module 1/ 2.5/ 5/ 10GBase-T (RJ45), distance up to 30m

Features

- Support 10Gbase-T / 5Gbase-T / 2.5Gbase-T / 1000base-T/100base-Tx on line port
- Support 10Gbase-R / 5Gbase-R / 2.5Gbase-X / SGMII 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 +60°C

Ordering Information

Part No	Description
SV-SFPP-T3A-M	Starview Multi-rate SFP+ 1/ 2.5/ 5/ 10Gbps Copper module 1/ 2.5/ 5/ 10GBase-T (RJ45), distance up to 30m

Cable Length

Line Port	Cable	Reach	Host Port
10Gbase-T	CAT6A	30m	10GBase-R
5Gbase-T	CAT5E	50m	5GBase-R
2.5Gbase-T	CAT5E	50m	2.5GBase-X
1000base-T	CAT5E	100m	SGMII with AN
100base-Tx	CAT5E	100m	SGMII with AN

General Specifications

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

Environmental Specifications

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

The SFP+-10GBASE-T has an input voltage range of 3.3 V +/- 5%. The 4V maximum voltage is not allowed for continuous operation.

+3.3 Volt Electrical Power Interface						
Parameter	Symbol	Min	Typ	Max	unit	Notes/Conditions
Supply Current	Is		800	1000	mA	3.3W max power over full range of voltage and temperature.
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.

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

High-Speed Electrical Interface

All high-speed signals are AC-coupled internally.

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	Zin		50		Ohm	Single ended
Rx Output Impedance	Zout		50		Ohm	Single ended