





4L-SFPTEFG

SFP+ 10/100/00BASE-T, Cooper, DDM, RJ-45 Connector, 100m



Applications

- Compliant with IEEE Std 802.3. 10BASE-T, 100BASE-T and 1000BASE-T
- Fast and Gigabit Ethernet over Cat5 cable
- Switch to Switch interface
- Router Server interface
- Other links

Features

- SFP Electric Transceiver
- SFP MSA Compliant
- Up to 100m links over Cat 5 cable
- Digital Diagnostic Monitoring
- MSA Compliant
- RoHS and Lead Free
- Operating temperature: 0°C ~ +70°C

Description

The 4L-SFPTEFG is a 10/100/1000BASE SFP transceiver series for data communications over cooper cables such as Cat5 defined by IEEE 802.3 standards.

This module is designed to operate with 10BASE-T, 100BASE-T or 1000BASE-T, the band is usually set directly on the switch management interface.





General Specifications – Absolute Maximum Ratings

Parameter	Symbol	Min	Recommended	Max
Max.LinkLength 1000BASE-T				100M on Cat 5
Storage Temperature	Тс	-40°C		+85°C
Operating Case Temperature	Тс	0°C		+65°C
Supply Voltage	Vcc	3.13V	3.3V	3.5V

Electrical Specifications

Low-Speed Signals, Electronic Characteristics					
Parameter	Symbol	Min	Max	Unit	Notes/Conditions
SFP OutputLOW	VOL	0	0.5	V	4.7k to 10k pull up to
SFP OutputHIGH	VOH	-0.5	+0.3v	V	host_Vcc measured at host side of conector
SFP InputLOW	VIL	0	0.8	V	4.7k to 10k pull up to Vcc measured at SFPside of
SFP InputHIGH	VIH	2	0.3	mV	connector





Electrical Specifications

Parameter	Symbol	Min	Тур.	Max	Unit	Notes/Conditions
	High-Speed Electrical Interface, Transmission Line-SFP					
Line Frequency	fL		125		MHz	level encoding perIEEE802.3
Tx Output Impedance	ZoutTX		100		Ohm	Differential for allfrequencies between 1MHz and 125MHz
Rx Input Impedance	Zin RX		100		Ohm	Differential for allfrequencies between 1MHz and 125MHz
	High-Speed Electrical Interface, Host-SFP					
Single ended data inputswing	Vinsing	250		1200	mV	Single ended
Single ended data outputswing	Voutsing	350		800	mV	Single ended
Rise/Fall Time	TrTf		175		psec	20%-80%
TxInputImpedance	Zin		50		Ohm	Single ended
Rx OutputImpedance	Zout		50		Ohm	Single ended

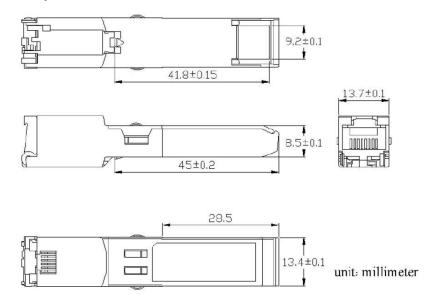




Electrical Specifications

Low-Speed Signals, Electronic Characteristics					
Parameter	Symbol	Min	Max	Unit	Notes/Conditions
SFP OutputLOW	VOL			V	kto k pull up to host_Vcc measured at host side of connector
SFP OutputHIGH	VOH	host_Vc c	host_Vcc	V	kto k pull up to host_Vcc measured at host side of connector
SFP InputLOW	VIL			V	kto kpull up to Vcc measured at SFPside of connector
SFP InputHIGH	VIH		Vcc	mV	kto kpull up to Vcc measured at SFPside of connector

Mechanical Specifications



Quick access to other products:





Ordering Information

Part Number	Description
4L-SFPTEFG	SFP 10/100/1000BASE-T, RJ45, DDM, 100m
4L-SFPT	SFP 1000BASE-T, RJ45, DDM, 100m
4L-SFPSXD	SFP 1000BASE-SX, 850nm, MM, DDM, LC Duplex, 300m
4L-SFPLXD	SFP 10GBASE-LX, 1310nm, SM, DDM, LC Duplex, 10Km
4L-SFPEXD	SFP 1000BASE-EX, 1550nm, SM, DDM, LC Duplex, 40Km
4L-SFPZXD	SFP 1000BASE-ZX, 1550nm, SM, DDM, LC Duplex, 80Km
4L-SFPZXDE	SFP 1000BASE-ZXE, 1550nm, SM, DDM, LC Duplex, 120Km

Note

This modules have been tested by 4LAN on equipments like Cisco, Juniper, Dell, HP, Mikrotik, Huawei, and other brands. The equipment brand must be informed before shipping the order, so the transceivers are reprogrammed to the corresponding brand.

Contact Information

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