SFP Media converter

1000M Gigabit 1 SFP Slot with 1 RJ45 Slot

Description

This series converters are designed to meet the massive needs for Gigabit network deployment and able to extend a copper based Gigabit network via fiber cable to a maximum distance up to 80KM.

This series converters are fully compliant with IEEE802.3z & 802.3ab standards. It can be installed into a Standard Converter Chassis. The installation & operation procedures are simple & straightforward. Operation status can be locally monitored through a set of Diagnostic LED located in the front panel.

More information

►1000Base-TX to 1000BASE-FX Converter
►Standard : IEEE 802.3z & 802.3ab
►Interface: 1 x RJ-45 connector / 1 x SFP Slot
►MDI/MDIX Auto-Crossover supported
►LED: Power , DUP,FP-LINK,RX,1000,TX
►Plug-and-Play installation
►Support Jumbo Frame (64-9216 Byte)
►Support Voltage Monitor
►with LFP Function



Features:

Item		Specification/Term
1	Item number	X1_3_5 1000-Base series
2	Standard Protocol	IEEE802.3u,10/100/1000Base-T,1000Base-SX/LX,IEEE802.3ah, IEEE802.3z/ab
3	Flow control	IEEE802.3x port flow control and back pressure control
4	Transmission speed	1000M auto-negotiation
5	Transmission mode	Full-duplex/semi duplex(auto-negotiation)
6	Conversion mode	Storage transmission
7	MAC address	VLAN 4K
8	Buffer space	128KB
9	Packet length	Storage transmission:9728Bytes,straight-through,infinite.
10	Time-delay	9.6us
11	Bit error rate	<1/1000000000
12	MTBF	100,000 hours
13	Power supply	Outside: 5V DC 1A ; Build-in: 110~265V AC 48V DC
14	Power dissipation	<2.5W
15	Interface	Electric port: RJ45,Fiber port:SC/FC or SFP
16	Twisted-pair cable	Cat.5 UTP cable
17	Multimode fiber	50/125, 62.5/125um
18	Single mode fiber	9/125, 10/125um
19	Wavelength	850nm/1310nm/1550nm
20	Transmit distance	
	1)Dual fiber multimode	550m
	2)dual fiber single mode	20/40/60/80/100/120Km
	3)single fiber single mode	20/40/60/80Km
	4)Cat.5 twisted-pair	100m
21	Operating temperature	0~60℃
22	Storage temperature	-20~70℃
23	Humidity	5%~90% (no condensation)

For LFP Function:

Dial switch function (external power supply type only):

1. set the dial switch 1 to "on" to enable the LFP alarm function, and set it to "off" to disable the LFP function;
2. set the dial switch 2 to "on", force the electrical interface to work, set it to "off", and the electrical interface works in the adaptive state;

3. set the dial switch 3 to "on", the electric port operates at 10m rate, set it to "off", and the electric port operates at 100m rate;
4. the dial switch 4 is set to "on", the electrical interface works in half duplex state, set to "off", and the electrical interface works in full duplex state.

Installation

- Attach fiber cable from the media converter to the fiber network. The fiber connections must be matched transmit socket to receive socket, the TX ,RX fiber cable must be paired at both ends .
- Attach a UTP cable from the 1000BASE-T network to the RJ-45 port on the media converter .
- Connect the power adapter to the media converter and check that the Power LED lights up. The FP-LINK/ACT and RX LEDs will light up when all the cable connections are satisfactory.

LED Description

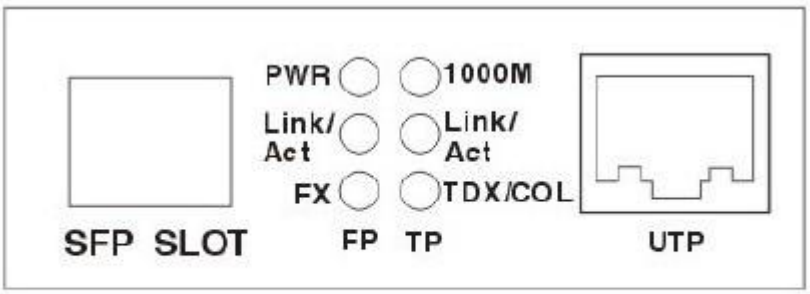


Table 1 : Front panel



Table 2 : Back panel

LED	function	status	Describing
PWR	Power LED	ON	Power is ON.
		OFF	Power is Fail.
FX	Fiber port signal detect LED	ON	Laser is receiving.
		OFF	No laser input.
FX-LINK/ACT	Fiber port link/action status LED	ON	Fiber link is ok.
		Blink	Data is been received or transmitted
		OFF	Fiber link is fail.
1000M	UTP port speed LED	ON	1000M speed
		OFF	100M speed
TX-LINK/ACT	UTP port link/action status LED	ON	Link is ok.
		Blink	Data is been received or transmitted
		OFF	Link is fail.
FDX/COL	UTP port duplex LED	ON	Full duplex
		OFF	Half duplex

Order Information

Part number	Description
X1SL	1000M Ethernet to fiber media converter with 1 GE SFP Slots ,1 RJ45 Slot. With LFP (without SFP transceiver installed inside)