

F Brief introduction

Many thanks for purchasing PoE (PSE) Media Converter! This product supports IEEE802.3U IEEE802.3z 1000Base-Tx/Fx protocol and IEEE802.3af PoE PSE application, internal AC/DC power supply and PSE controller can output up to 25Watts (DC48V/540mA,) or 15.4Watts (DC48V/350mA,) power into CAT5 twisted-pair cable. The following purchasing guide is for customer's reference.

F Packing list

Please check the following items in the package before installing the media converter.

PoE (PSE) media converter	1set
AC Power cable	1pc
User manual	1copy

Please contact the dealer immediately for any loss or damage to the above items.

F Installation

1. Interface

RJ-45 interface

The transmission media adopts CAT5 twisted-pair with maximum length up to 100meters (330feet).

Fiber interface

SC/ST fiber interface is of duplex mode type, including two interfaces, namely TX and RX. When the two sets of optical transceiver are interfaced or connected to switch with fiber interface, the fiber is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fiber transceiver module).

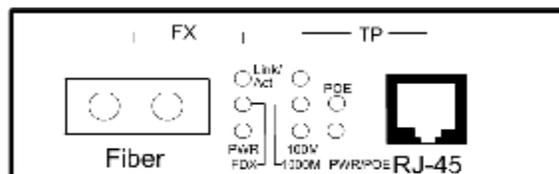
Power supply interface

The AC power supply is connected to AC-input jack

of media converter through the attached AC power cable.

2. Connection

The network device (network card, hub or switch, etc) with RJ-45 interface is connected to RJ-45 jack of media converter through twisted-pair. And the multi/single mode optical fiber is connected to SC/ST fiber interface of the optical transceiver module. Then connect the AC power cables, the media converter will work. The corresponding LED is on for correct connection. (See the table below for the LED indicator lamp)



F Description for LED indicator lamp

PWR	ON when the power supply is turned on
Link/Act (FX)	Bright when optic fiber cable is connected well, but no data transmission
	Blinking when receiving data
Link/Act (TP)	Bright when twisted pair is connected well, but no data transmission
	Blinking when receiving data
FDX(TP)	ON when TP link is in full duplex mode
	OFF when TP link is in half duplex mode
1000M	ON 1000M
	OFF 100M or 10M

100M	ON 100M
	OFF 1000M (1000M ON) or 10M (1000M OFF)
POE	ON when connect a correct PD load
	OFF when no load or wrong load
	Blinking when load is abnormal
PWR/POE	ON when POE 48V power is ok
	OFF when P
	OE 48V power is losing or too low

F Introduction to dip switches

NO.	Function	Status	Specification
SW1-1	ENROM *	OFF	Disable
		ON	Enable EEPROM SET
SW1-2	FX100M *	OFF	FX 1000M (default)
		ON	FX 100M
SW1-3	NULL	OFF	Reserved
		ON	
SW1-4	LFP *	OFF	Disable
		ON	Enable
SW1-5	MODE1 **	OFF/OFF	Store and Forward mode
		OFF/ON	Modified cut through mode
SW1-6	MODE0 **	ON/OFF	Smart pass through mode
		ON/ON	Pass through mode

Note:

I *SW1-2(FX100M) / SW1-4(LFP) will be active only when SW1-1(ENROM) is ON;

I **SW1-5(MODE1) and SW1-6(MODE0) are combined keys to select switch forward mode (MODE1/MODE0).

F Main features

1. In conformity to IEEE802.3u IEEE802.3z 1000Base-Tx/Fx standard.
2. IEEE802.3af PoE PSE compatible
3. Half duplex: back pressure flow control
Full duplex: IEEE802.3x flow control.
4. Automatic identification of MDI/MDI-X cross line..
5. Supports link fault pass through function.

F Technical parameters

1. Standard Protocol: IEEE 802.3u 100 Base-TX, IEEE802.3z, IEEE802.3ab standard, IEEE802.3af
2. Connector: one UTP RJ-45 connector, one SC/ST connector, one AC-inlet connector
3. Operation mode: full duplex mode or half duplex mode
4. Power supply parameter: 100-240V AC
5. Environmental temperature: 0°-50 °
6. Relative humidity: 5%-90%
8. TP cable: Cat5 UTP cable
9. Optical fiber:
multi-mode: 50/125, 62.5/125 or 100/140µm
single mode:: 8.3/125, 8.7/125, 9/125
- 10 Dimensions:
Power internal:
140mm(L) x 110mm(W)x40mm(H)

F Cautions:

1. This product is suitable for indoor application.
2. Put on the dust cover of fiber interface when not used.
3. It is forbidden to stare at the TX fiber-transfer end with naked eyes.
4. Single optical fiber transceiver must be used in pair

F Trouble shooting

1. Device is not matched. Please select the corresponding network device according to the transfer rate of the product (10Mbps, 100Mbps or 1000Mbps) when connected to other network devices (network card, hub, switch, etc).
2. Line loss is excessive during the fiber wiring. Excessive loss in connector plug-in and fiber soldering welding, and excessive intermediate nodes may cause excessive loss rate or abnormal operation.

10/100/1000Base-TX to 1000Base-FX

PoE (PSE) Media Converter

user manual

(Do not use until you read this manual
carefully)