

Introduction

This product supports IEEE802.3U IEEE802.3z 1000Base-Tx/Fx protocol and IEEE802.3at/af PoE+ PSE applications. The internal AC/DC power supply and PSE controller can output up to 30Watts (DC52V/600mA) or 25Watts (DC48V/540mA) or 15.4Watts (DC48V/350mA) power into a CAT5 twisted-pair cable.

The following guide is for the user's reference.

Package Contents

The following items are included:

PoE+ (PSE) media converter	1 set
Power cable	1 each
User manual	1 each

Please contact the seller immediately if any of the above are missing or damaged

Installation

1. Interface

RJ-45 Interface

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

Fiber Interface

Fiber interface accepts duplex mode type, including two interfaces, send (TX) and receive (RX). When the two sets of optical transceiver are interfaced or connected to switch with fiber interface, the fiber is in cross connection, i.e. "TX-RX", "RX-TX" (direct connection for single optical fiber transceiver module).

Power Supply Interface

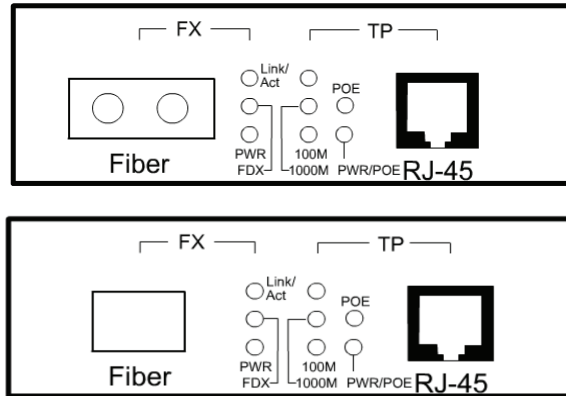
The AC power supply is connected to AC-input jack of the media converter through the attached AC power cable.

2. Connection

Connect a network device (network card, hub or switch, etc.) with an RJ-45 interface to the RJ-45 jack of media converter via twisted-pair.

This switch accepts standard SFP modules, which should be selected to match the fiber type in use (single mode or multimode). Insert SFP module into pictured "Fiber" port (below). Connect a matching single mode or multimode optical fiber to the fiber interface of the optical transceiver module.

Connect AC power cable. LED indicators will indicate connection success. (See the table below for LED indicator light identification.)



LED Indicator Lights

PWR	ON when the power supply is turned on
Link/Act (FX)	Bright when optic fiber cable is connected correctly but data is not transmitting
	Blinking when receiving data
Link/Act (TP)	Bright when twisted pair is connected correctly but data is not transmitting
	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 connected and PD load correct
	OFF when no load or load problem
	Blinking when load is abnormal
PWR/POE	ON when POE 48V power is stable
	OFF when POE 48V power is decreasing or too low

DIP Switch Functions

NO.	Function	Status	Specification
SW1-1	ENROM *	OFF	FX_reset disable
		ON	FX_reset enable
SW1-2	FX100M	OFF	FX 1000M (default)
		ON	FX 100M
SW1-3	POE shutdown	OFF	POE shutdown disable
		ON	POE shutdown enable
SW1-4	LFP	OFF	LFP Disable
		ON	LFP Enable
SW1-5	MODE1	OFF	ALS disable
		ON	ALS enable
SW1-6	MODE0*	OFF	AI_POE disable
		ON	AI_POE enable

Note:

* FX Reset: if enabled, when FX link is down, power will shut down for a few seconds and restart.

* AI_POE: if enabled, If there is no data input for two minutes, Poe will restart.

Main Features

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

Technical Parameters

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

Warnings:

1. This product is suitable for indoor applications only.
2. Install dust cover on SFP port when not in use.
3. Do not look into TX fiber-transfer side when active. Eye damage may occur.
4. Single optical fiber transceivers must be used in a pair.

Troubleshooting

1. Device is not matched: 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 fiber connection: Excessive loss in connector installation and fiber termination, or excessive intermediate nodes may cause excessive loss rate or abnormal operation.

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

SSF-SFP-RJ45POE-1G PoE+ (PSE) Media Converter

User Manual

Read Manual Before Use



www.cleerlinefiber.com