

Introduction

This product supports IEEE802.3u, IEEE802.3z 1000Base-Tx/Fx protocol and IEEE802.3at/af PoE+ PSE applications. The external AC/DC power supply and PSE controller can output up to 30 watts or 15.4 watts 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
Adapter (external only)	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 typical length of up to 100 meters (330 feet). The unit will automatically identify the through line and cross wire.

Fiber Interface

The fiber interface is an empty SFP slot.

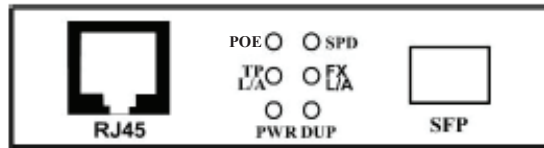
2. Connection

Connect a network device (workstation, hub or switch, etc.) with a RJ-45 interface to the RJ-45 jack of the 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 power cable.

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



LED Indicator Lights

LED	Status	Explanation
POE	On	Converter delivering PoE
	Off	No PoE power supplied
SPD	On	1000 Mbps (Gigabit) data transfer
	Off	10/100 Mbps data transfer
TP L/A	On	Fiber connection (1000 Mbps)
PWR LED	On	Converter powered successfully
DUP LED	On	Full duplex copper port connection
	Off	Half duplex copper port connection

DIP Switch Functions

NO.	Function	Status	Description
1	LFP Function	OFF	Disable
		ON	Enable
2	ALS function (only for SFP)	OFF	Disable
		ON	Enable
3	FX Reset	OFF	Enable
		ON	Disable
4	FX Speed Set	OFF	FX 1000M
		ON	FX 100M

Note:

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

Main Features

1. Conforms to IEEE 802.3 10Base-T standard. Also conforms to IEEE 802.3u 100Base-TX, IEEE802.3z, IEEE802.3ab standard.
2. Built-in high efficiency SRAM for packet buffer, with 1K-entry lookup table and 4-way associative hash algorithm.
3. Half duplex: back pressure flow control. Full duplex: IEEE802.3x flow control
4. Automatic identification of MDI/MDI-X cross line.
5. In conformity to safety code of FCC and 15 CLASS A and CE.

Technical Parameters

1. Standard Protocol: IEEE802.3 10 Base-T standard
2. IEEE 802.3u 100Base-TX and IEEE802.3z standard
3. Connector: one UTP RJ-45 connector, one SFP slot
4. Operation mode: full duplex mode or half duplex mode
5. Power supply parameter: Adapter (External): 110-265V AC input, 48/52V1A DC output
6. Operating temperature: 0°C - 50°C
7. Relative humidity: 5%-90%
8. TP cable: Cat5 UTP cable
9. Transfer fiber:
Multimode: 50/125, 62.5/125 or 100/140µm
Single mode: 8.3/125, 8.7/125, 9/125 or 10/125µm
10. Dimensions: 94mm(L)x 71mm(W) x 26mm(H) (not including AC adapter)

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