

2x 10/100/1000Base-TX to 1000Base-FX

SSF-SFP-RJ452POE-1G PoE+ (PSE) Media Converter

User's Manual

Introduction

This product supports IEEE802.3U, IEEE802.3z 1000Base-Tx/Fx protocol and IEEE802.3at/af PoE+ PSE applications. The DC power supply and PSE controller can output up to 30 watts or 15.4 watts of power into CAT5 twisted-pair cable.

This guide is for the user's reference.

Package Contents

The following items are included:

Media converter	1 each
AC/DC Power Adapter	1 each
User's manual	1 each

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

Installation

Interface

RJ-45 Interface

The transmission media uses CAT5e or CAT6 twisted-pair with maximum length of up to 100 meters (330ft).

Fiber Interface

SFP slot fiber interface can run either 100Mbps or 1000Mbps speeds according to the DIP sw settings.

Power Supply Interface

The AC/DC power adapter connects to the DC-input jack of the media converter.

Connection:

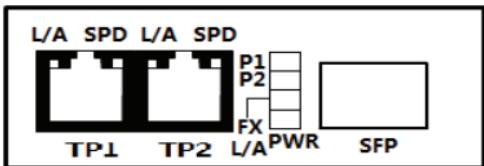
Connect the network device (IP camera, wireless AP, VoIP phone, etc) with an RJ-45 interface to the RJ-45 jack of media converter via twisted-pair.

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 power cable.

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



LED Indicator Lights

LED indicators allow device monitoring and troubleshooting.

P1	ON: TP1 connect a correct PD load
P2	ON: TP2 connect a correct PD load
TP1/TP2 SPD	ON: 1000M (TP)
	OFF: 100M/10M (TP)
TP1/TP2 L/A	Bright: twisted pair is connected correctly, but no data transmitting Blinking: receiving data
	Bright: optic fiber cable is connected correctly, but no data transmitting Blinking: receiving data
PWR	ON: converter is active

DIP Switch Functions

NO	Function	Status	Description
1	Reserved	X	X
2	Jumbo frame	OFF	Normal
		ON	Up to 9KB
3	Port isolation	OFF	Disable
		ON	Enable
4	FX 100M	OFF	FX 1000M
		ON	FX 100M

Power over Ethernet Output:

- Pin Assignment and Polarity
Peak current $I_{O\max} \leq 0.6A$: 1/2 (V+), 3/6 (V-)

Technical Parameters:

- 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
- Standard Protocol: IEEE 802.3u 1000 Base-TX, IEEE802.3z, IEEE802.3ab standards
- Connectors: one UTP RJ-45 connector, one SFP slot, one DC-inlet connector
- Operation mode: full duplex or half duplex mode
- Power supply parameter: DC 44-56V af, DC 50-56V at
- Operating temperature: 0°C - 50°C
- Relative humidity: 5%-90%
- TP cable: Cat5e or CAT6 UTP cable
- Dimensions: 94mm (L) x 71mm (W) x 26mm (H)
(Does not include transceiver length)

Warnings

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

Troubleshooting

- 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).
- 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.