Brief introduction

This product supports IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, and IEEE802.3at/af PoE PSE application, 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 CAT twisted-pair cable.

Items Included

1 x PoE (PSE) Media Converter
1 x Power Cable
1 x User Manual
Please contact us if items are missing.

Installation

RJ-45 Interface

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

Fibre Interface

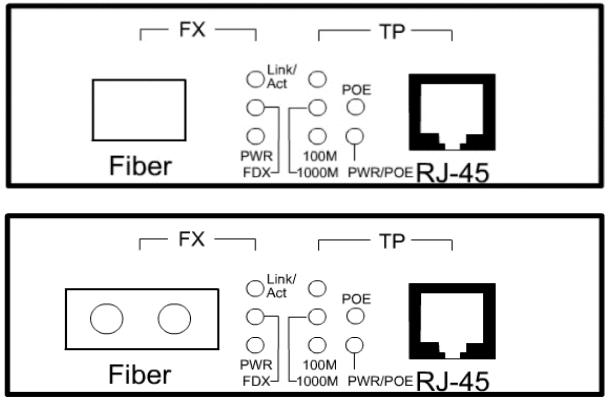
Fibre interface is of duplex mode type, including two interfaces, namely TX and RX. When the two sets of optical transceivers are interfaced or connected to a switch with a fibre interface, the fibre is in cross connection, namely "TX-RX", "RX-TX" (direct butting for single optical fibre transceiver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

Power Interface

The AC power cable is connected to the media converters rear AC connection.

Connection

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



How the LED Lights Work

PWR	ON when the power supply is turned on
Link/Act (FX)	Bright when optic fibre cable is connected, but no data transmission
	Blinking when receiving data
Link/Act (TP)	Bright when twisted pair is connected, 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 connected to 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 POE 48V power is lost or too low

Introduction to DIP Switches

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

FX Reset: If enabled, when fx link is down, power will shut down, and reboot after a few seconds.
AI_POE: If enabled, after two minutes of no data input, POE will restart.

Main features

1. IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z compatible.
2. IEEE 802.3at and IEEE 802.3af 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.

Technical parameters

1. Connector: one UTP RJ-45 connector, one LC/ST/SC connector, one AC power connector.
2. Operation Mode: full duplex mode or half duplex mode.
3. Power Input: 100 - 240V AC 50/60Hz
4. Power Output: DC 48V 0.54A
5. Power Consumption: 34 Watts with IEEE 802.3at 30-Watt Full Load
6. Environmental Temperature: 0℃ - 50℃
7. Relative Humidity: 5% - 90%
8. TP Cable: CAT UTP Cable
9. Optical Fibre:
   - multi-mode: 50/125, 62.5/125 or 100/140μm
   - single mode: 8.3/125, 8.7/125, 9/125
10. Dimensions: 140mm(L) x 110mm(W)x40mm(H)

Cautions

1. This product is suitable for indoor applications.
2. Please use the dust cover for the fibre interface when not in use.
3. Single optical fibre transceiver must be used in pair.

Trouble shooting

1. Device transfer rate mismatch. Please select a compatible network device in relation 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 on fibre cabling. Poor quality connector plugs, fibre joints, or nodes may cause data/link loss or abnormal operation.

WARNING: Do not point the media converter's fibre optic laser into your eyes.

CCD-POE-4100 (LC/ST/SC)

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

PoE (PSE) Media Converter

User Manual

SAA 240774