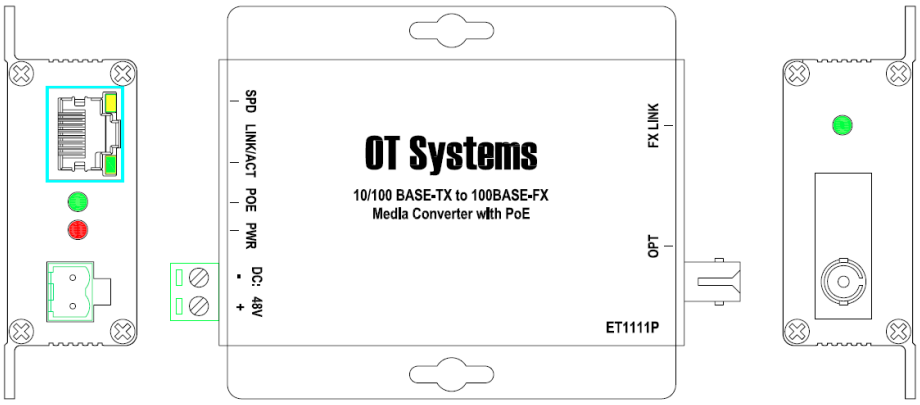
ET1111P Series

Industrial 10/100BASE-TX to 100BASE-FX Ethernet Media Converter with PoE/PSE

This quick start guide describes how to install and use the PoE Media Converter. This is the Media Converter of choice for harsh environments constrained by space.

Physical Description



The Power input

Connect a 48V DC power supply to the 2 pin terminal block (marked with DC: 48V) of the media converter. The pin assignment of the terminal block is shown as below.

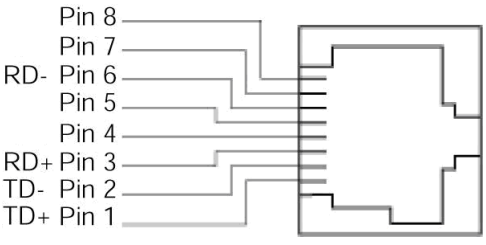
Power Input Assignment			
DC: 48V	+	48VDC	Terminal Block
	−	Power Ground	

The PWR indicator will be lit if the power supply is properly connected

The 10/100Base-TX and 100Base-FX Connectors

The 10/100Base-TX Connections

The following lists the pinouts of 10/100Base-TX ports.

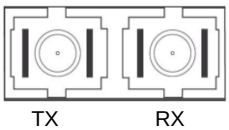


Pin	Regular Ports	Uplink port
1	Output Transmit Data +	Input Receive Data +
2	Output Transmit Data -	Input Receive Data -
3	Input Receive Data +	Output Transmit Data +
4	NC	NC
5	NC	NC
6	Input Receive Data -	Output Transmit Data -
7	NC	NC
8	NC	NC

The 100Base-FX Connections

The fiber port pinouts

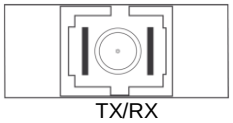
The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.



The WDM 100Base-FX Connections

The fiber port pinouts

Only one single-mode optical fiber is required to transmit and receive data.



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The Port Status LEDs, Wall Mounting Kits, Optional DIN-Rail Kits

LED	State	Indication
PWR	Steady	Power on.
	Off	Power off.
Power over Ethernet (PoE)		
PoE	Steady	Power Device (PD) is connected.
	Flashing	Power Device is under detection stage
	Off	Power Device (PD) is disconnected.
10/100Base-TX, 100Base-FX		
Link/ACT	Steady	A valid network connection established.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.
	Off	Ethernet connection is not established
SPD	Steady	100 Mbps network equipment is connected
	Off	10 Mbps network equipment is connected or Ethernet connection is not established

Functional Description

- Meets EN55022: 2006+A1: 2007 EMC standard.
- Supports IEEE802.3af Power over Ethernet (PoE) Power Sourcing Equipment (PSE).
- Supports IEEE802.3/802.3u/802.3x. Auto-negotiation: 10/100Mbps, Full/Half-duplex, Auto-Negotiation, Auto MDI/MDIX.
- 100Base-FX: Multi/Single mode SC type; WDM 100Base-FX: Multi/Single mode SC type.
- Supports 1024 MAC addresses. Provides 128K bits buffer memory.
- Power Supply: 48VDC Terminal Block power input.
- Operating voltage and Max. current consumption: 0.44A @ 48VDC or -0.44A @ -48VDC. Power consumption: 21.12W Max.
- -10°C to 60°C (14°F to 140°F) operating temperature range
- Supports Wall Mounting installation.

Assembly, Startup, and Dismantling

Wall Mounting installation

- Assembly: Securely fasten the wall-mount kits to the bottom of module by using the provided screws (4 pcs)
  Mount the standalone unit onto a fixture, e.g. a plank, (either on the wall or on a flat surface) with at least 2 screws piercing through the holes on the mounting frame to secure it in position.
- Startup: Connect the supply voltage to start up the Media Converter via the terminal block (or DC JACK).
- Dismantling: Locate and remove the securing screws. Usually, but not limited to, at least 2 screws.

Manual Earth Green manual is available on our website www.ot-systems.com