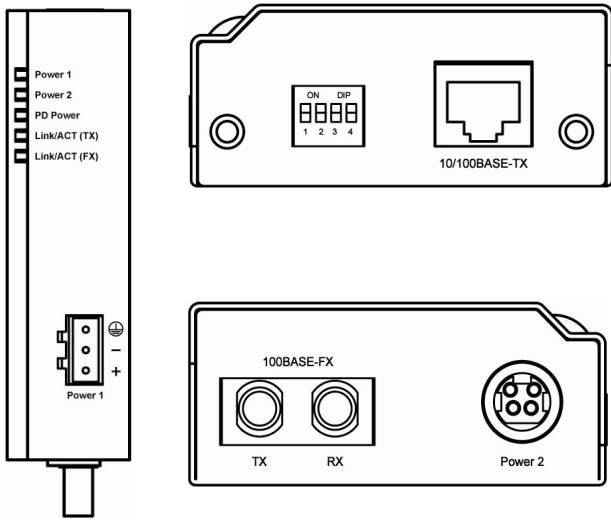


## Industrial PoE Media Converter


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

### Physical Description

#### The Terminal Block and Power inputs



DIP Switch	On	Off
1	Enable forced mode for TX port	Enable auto negotiation for TX port
2	TX port forced to 10Mbps	TX port forced to 100Mbps
3	TX port forced to half duplex mode	TX port forced to full duplex mode
4	Enable Link-Fault-Pass-Through	Disable Link-Fault-Pass-Through

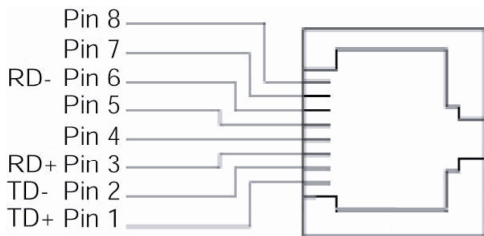
Power Input Assignment			
Power 1	+	48VDC	Terminal Block
	-	Power Ground	
		Earth Ground	
Power 2		48VDC	DC Jack

DC Terminal Block Power Inputs: There are two power inputs that can be used to power up this Industrial PoE Media Converter. Redundant power supplies function is supported.

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

##### The 10/100Base-TX Connections

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

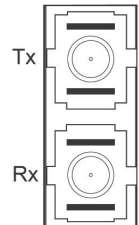


Pin	Regular Ports	Uplink port
1	Output Transmit Data +	Input Receive Data +
2	Output Transmit Data -	Input Receive Data -
3	Input Receive Data +	Output Transmit Data +
4	NC	NC
5	NC	NC
6	Input Receive Data -	Output Transmit Data -
7	NC	NC
8	NC	NC

##### The 100Base-FX Connections

The fiber port pinouts

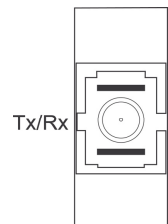
The Tx (transmit) port of device I is connected to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II.



##### The WDM 100Base-FX Connections

The fiber port pinouts

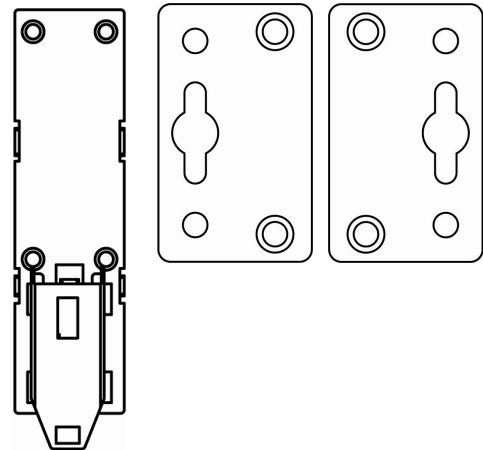
Only one single-mode optical fiber is required to transmit and receive data.



## Industrial PoE Media Converter

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

LED	State	Indication
<b>Power over Ethernet (PoE)</b>		
<b>PD Power</b>	Steady	Power Sourcing Equipment (PSE) is connected.
	Off	Power Sourcing Equipment (PSE) is disconnected.
<b>10/100Base-TX, 100Base-FX</b>		
<b>Link/ACT</b>	Steady	A valid network connection established.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.



## Functional Description

- Meets EN61000-6-2 & EN61000-6-4 EMC Generic Standard Immunity for industrial environment.
- Supports IEEE802.3af Power over Ethernet (PoE) Power Device (PD).
- DIP Switch configuration for “Link-Fault-Pass-Through”, speed, duplex mode.
- 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 or ST type, WDM Single mode SC type.
- Power Supplies: Redundant 48VDC Terminal Block power input and 48VDC DC JACK with 100-240VAC external power supply.
- Field Wiring Terminal Markings: Use Copper Conductors Only, 60/75°C, wire range 12-24 AWG, torque value 7 lb-in.
- Operating voltage and Max. current consumption: 0.44A @ 48VDC. Power consumption: 21.12W Max.
- -10°C to 60°C (14°F to 140°F) operating temperature range. UL508 Industrial Control Equipment certified Maximum Surrounding Air Temperature @ 60°C (140°F).
- For use in Pollution Degree 2 Environment.
- Supports DIN-Rail, Panel, or Wall Mounting installation.

## Assembly, Startup, and Dismantling

- Assembly: Place the Media Converter on the DIN rail from above using the slot. Push the front of the Media Converter toward the mounting surface until it audibly snaps into place.
- Startup: Connect the supply voltage to start up the Media Converter via the terminal block (or DC JACK).
- Dismantling: Pull out the lower edge and then remove the Media Converter from the DIN rail.

