

## Hardware Description:

### Data = DATA IN:

Connection to the Ethernet device with UTP cable to transmit data. Top Row.

### Data+PoE = POE OUT

Connect to the PD with UTP cable to supply power. Bottom Row.

### Power:

Power LED, a steady green light indicates that PoE injector has power.

### PoE In-use:

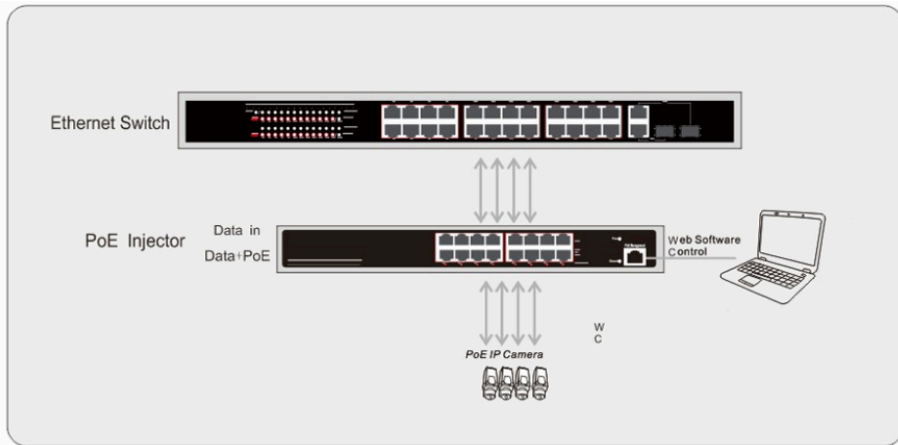
PoE LED, steady yellow indicates that the injector is supplying power to the PD.



Connect AC cable and/or connect DC power source

## Application:

Use the PoE injector with PD to expand your network where there are no power outlets. Use where you need to power devices such as AP's, IP cameras, IP Phones, etc.



## Steps:

1. Use a CAT5e or better UTP cable to connect the ports of your Ethernet switch to the top row data ports
2. Connect the PoE-powered device to the bottom row "Data + PoE" ports with CAT5e or better cable
3. Connect the AC cord to the back of the injector. Plug in the cord. Alternately connect DC power source to the DC IN wire terminal. Turn on the power switch.



## 16 Port 802.3at PoE INJECTOR

*Powering your network infrastructure with efficiency and precision*



**USER MANUAL**

**TP-MS16-AT**

[www.tyconsystems.com](http://www.tyconsystems.com)

## Tycon® 16 Port Gigabit 802.3at PoE+ Managed Injector

### Description

The TP-MS16-AT PoE Injector is a 16-port, rack-mountable device that simplifies powering network equipment. It fully complies with IEEE 802.3af/at standards, making it a compact, cost-effective solution for remotely powering devices like Wi-Fi access points, IP cameras, VoIP phones, and other compatible equipment.

This injector is safe, reliable, and ideal for Ethernet infrastructure.

You can manage it easily through a web browser interface. It supports both AC and DC power sources, including battery systems. When connected to both AC and a DC battery, the DC acts as a backup power source to ensure uninterrupted operation.

### Features

- Fully IEEE 802.3af/at compliant
- Up to 30W of power on 2 pairs
- Auto-detection of 802.3af/at PoE equipment
- Supports 10/100/1000 Base-T applications
- LED indicators for System Power and Port Power
- Auto-Ranging AC and Secondary DC Power Input.
- Easy plug-and-play installation
- Surge Protection
- Management by Web/Telnet:
  - Monitoring total power across all ports
  - Setting and checking power for each port
  - Turning PoE power on/off per port and rebooting devices
  - Viewing event logs
  - Controlling port power-up order and timing
  - Scheduling port power activation
  - Running automatic PoE checks
  - Sending SNMP notifications

### Specifications:

Item	Description
No. of channels	16
Pass Through Data Rates	10/100/1000 Mbps
Power over Ethernet Output	<ul style="list-style-type: none"> <li>• Pinout: Both 1/2(-), 3/6(+)</li> <li>• Output Power Voltage: 54 VDC</li> <li>• User Port Power: 15W / 30W</li> </ul>
PoE Standards	802.3 af/at
Input Power Requirements	<ul style="list-style-type: none"> <li>• AC Input: 100 ~ 240 VAC 50/60Hz</li> <li>• DC Input: 48-57VDC 450W Max</li> </ul>
Total PoE Power Out	<ul style="list-style-type: none"> <li>• With AC input: 250W Max</li> <li>• With DC input: 450W Max</li> </ul>
Dimensions	320mm x 207mm x 44mm
Network cables	Shielded category 5e (or higher)
Indicators	<ul style="list-style-type: none"> <li>• System Power</li> <li>• Channel PoE Power</li> </ul>
Connectors	Shielded RJ-45, EIA 568A and 568B
Environment	Indoor or Outdoor in Weatherproof Enclosure
Protection	<ul style="list-style-type: none"> <li>• Over current protection</li> <li>• Over load protection</li> <li>• Over voltage protection</li> <li>• Anti-interference protection</li> </ul>
Environmental Conditions	<ul style="list-style-type: none"> <li>• Operating Temperature: -20°C to 60°C</li> <li>• Operating Humidity: 80% Non-condensing</li> <li>• Storage Temperature: -20°C to 70°C</li> <li>• Storage Humidity: Max 80%, Non condensing</li> </ul>