

TP-LINK®

User Guide

TL-POE150S

PoE Injector



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FCC STATEMENT



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CE Mark Warning



This is a class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

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Package Contents

The following items should be found in your package.

- TL-POE150S PoE Injector
- One Power Adapter
- One Ethernet (CAT5 UTP) Cable
- This User Guide

Note:

Make sure that the package contains the above items. If any of the listed items are damaged or missing, please contact with your distributor.

Chapter 1 Introduction

1.1 Overview of the Production

Thank you for choosing the **TL-POE150S PoE Injector**. The Power over Ethernet (PoE*) Injector is able to supply steady power to Powered Device (PD*) or PoE Splitter over the Ethernet cable. The Ethernet equipment can work as a Power Sourcing Equipment (PSE*) with the help of the TL-POE150S connection.

PoE technology allows the existing Ethernet infrastructure to transmit electrical power, along with data, to remote IP endpoints over the Ethernet cables, which can greatly save the cost of the external power cables. Your network can benefit from PoE technology for it will ensure the normal working status of your network while keep the existing Ethernet infrastructure secure.

*PoE: This technology describes a system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network.

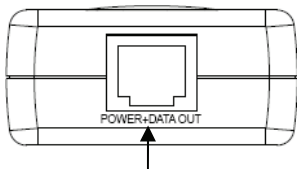
*PD: A device powered by a PSE and thus consumes energy. Examples include powering IP telephones, wireless LAN access points, network cameras, network hubs, embedded computers etc.

*PSE: A device (switch or hub for instance) that will provide power in a PoE setup.

1.2 Features

- Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3af standards
- Compatible with PoE compliant PDs and PoE Splitters
- Transmits electrical power along with data in one single cable
- External 48V DC power supply
- Supports Plug-and-Play for the devices, without any configuration
- Elegant appearance with space-saving mini size

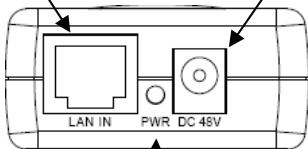
Chapter 2 Identifying External Components



POWER+DATA OUT: Connect to the PD or PoE Splitter with a CAT5 UTP cable.

LAN IN: Connect to a network device (such as a Switch or Router) with CAT5 UTP cable.

DC 48V: Connect to the provided power adapter which can supply steady power of 48V DC.



PWR: Power LED, a steady green light indicates that the PoE system has detected the PD or PoE Splitter and the power adapter is working properly.

Chapter 3 Connecting the PoE Injector

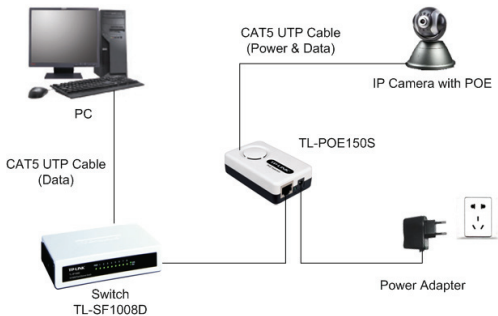
You can use TL-POE150S PoE Injector with PD or PoE Splitter to expand your network to where there are no power lines or outlets, where you wish to fix devices such as APs, IP Cameras or IP Phones, etc. The following steps will tell you how to connect the PoE Injector correctly.

1. Use a CAT5 UTP cable to connect port of Ethernet device (such as a switch, hub or router) to the **LAN IN** port.
2. Please connect the power adapter properly to a power socket with provided power cable, and then connect the other end of the power adapter to the **DC 48V** port of the TL-POE150S.
3. Connect the **POWER+DATA OUT** port of the TL-POE150S to a PD or a PoE Splitter with CAT 5 UTP cable.

Now, the device can work normally with data and power.

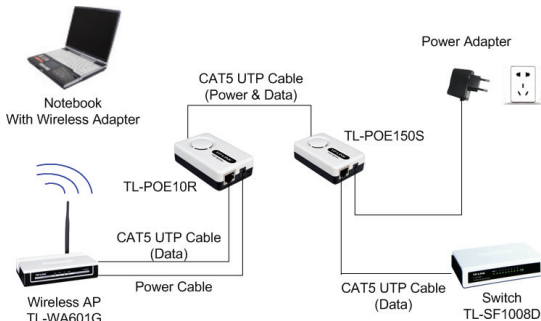
There are two schemes to realize the PoE.

1. If the device supports PoE (take an IP camera with PoE for example), following topology will work:



Scheme 1

2. If the device does not support PoE, it is necessary to have a PoE Splitter to separate the power and data, transmitting them detached in one UTP cable and one power cable. Here we take TP-LINK TL-POE10R Splitter for example. You can use following topology.



Scheme 2

Note:

- Do not mistake the power port of the TL-POE150S and TL-POE10R when choosing the Scheme 2, or else it will cause serious damage to your network device.
- If you want to know more details about TL-POE10R Splitter, please refer to “TL-POE10R User Guide” on our website <http://www.tp-link.com>.

Appendix: Specifications

| Normal | | |
|--------------------|---------------------------------------|---|
| Standards | IEEE 802.3, IEEE 802.3u, IEEE 802.3af | |
| Ports | PoE Port | 100BASE-TX / 10BASE-T dual purpose port |
| | LAN Port | |
| Cabling Type | RJ45 CAT 5 UTP cable | |
| LED | PWR | |
| Safety & Emissions | FCC, CE | |

| Environmental and Physical | |
|----------------------------|----------------------------|
| Operating Temp | 0°C~40°C (32°F~104°F) |
| Storage Temp | -40°C~70°C (-40°F~158°F) |
| Operating Humidity | 10%~90% RH, Non-condensing |
| Storage Humidity | 5%~90% RH, Non-condensing |

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