Installation Guide

PoE Injector and PoE Splitter
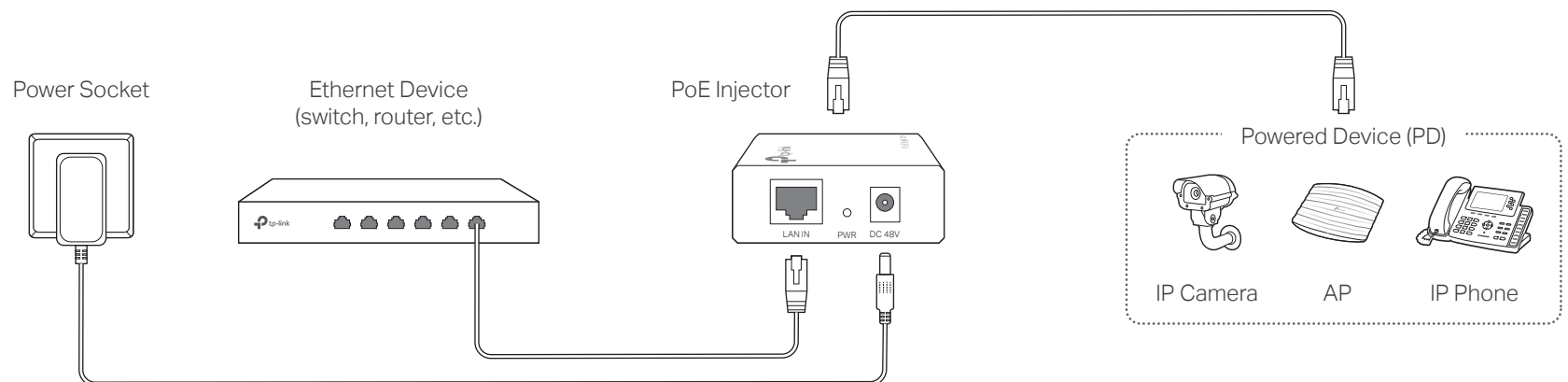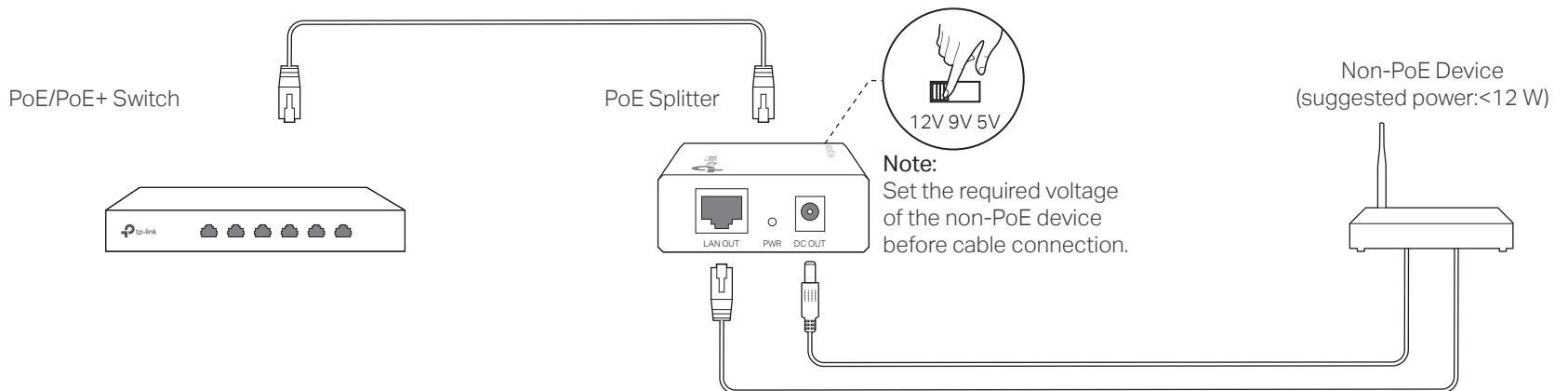
Some models featured in this guide may be unavailable in your country or region. For local sales information, visit https://www.tp-link.com.

For simplicity, we will take TL-POE150S and TL-POE10R for example throughout the Guide, other models may differ in appearance.
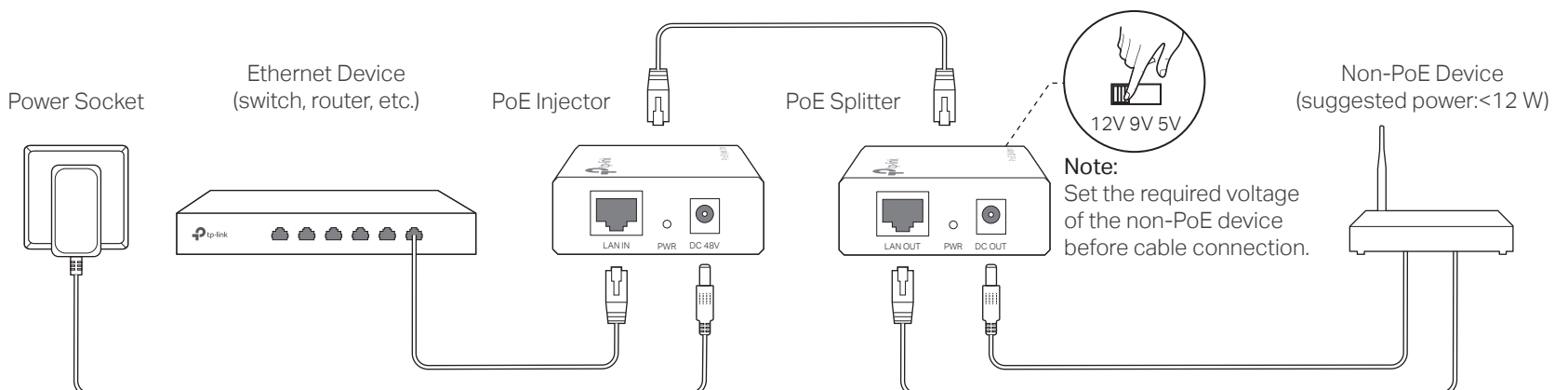
PoE Injector Only

The PoE Injector supplies steady power and data connectivity to a powered device such as PoE IP Camera, PoE AP and PoE IP Phone through an Ethernet cable.

Power Socket | Ethernet Device (switch, router, etc.) | PoE Injector | Powered Device (PD)

LAN IN   PWR   DC 48V

IP Camera   AP   IP Phone

PoE Splitter Only

The PoE Splitter can be used with a PoE/PoE+ switch to deliver direct current (DC) power and data to a Non-PoE device.

PoE/PoE+ Switch | PoE Splitter | Non-PoE Device (suggested power:<12 W)

12V 9V 5V

Note:
Set the required voltage of the non-PoE device before cable connection.

LAN OUT   PWR   DC OUT

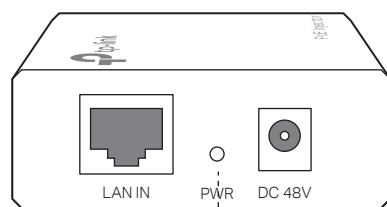## PoE Injector & Splitter

The PoE injector and PoE splitter can be used as a kit to supply power and transmit data to a Non-PoE device.

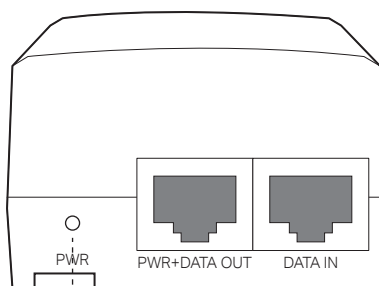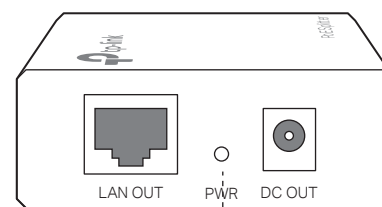Power Socket | Ethernet Device (switch, router, etc.) | PoE Injector | PoE Splitter | Non-PoE Device (suggested power:<12 W)

12V 9V 5V

Note:
Set the required voltage of the non-PoE device before cable connection.

LAN IN   PWR   DC 48V   LAN OUT   PWR   DC OUT

Power LED Explanation

PoE Injector:

LAN IN   PWR   DC 48V

On: Supplying power normally
Flashing: No PD is connected/Supplying power abnormally
Off: No power supply

PWR   PWR+DATA OUT   DATA IN

On: Supplying power normally
Off: No power supply

FAQ

Q1. Can the PoE injector supply power to a PoE device which doesn't have a gigabit PoE port?

A: Yes. All RJ45 ports of the PoE injector support 10/100/1000 Mbps auto-negotiation.

Q2. What can I do if my PoE injector doesn't supply power to the powered device or the supplied power is unstable?

A1: Ensure the PD is PoE-compliant and its connecting port supports the PoE function.
A2: For TL-POE150S, ensure the power consumption of the PD doesn't exceed 15.4 W; for TL-POE160S, ensure the power consumption of the PD doesn't exceed 30 W, otherwise the overload protection of the PoE injector will be activated. The quality and length of the Ethernet cable may influence the reception of the power supply.

Q3. Must I use the PoE injector together with the PoE splitter?

A: No. The PoE injector can supply power to all PDs support PoE function. The PoE splitter is used with a PoE switch or the PoE injector to supply power to a non-PoE device.

PoE Splitter:

LAN OUT   PWR   DC OUT

On: Connected to PSE correctly
Off: No PSE is connected

Specifications

General Specifications

Standards	IEEE 802.3i, IEEE802.3u, IEEE 802.3ab, IEEE 802.3af IEEE 802.3at (only for TL-POE160S)
LED	PWR
Cable Type	UTP/STP of Cat. 5 or above (based on the standards that the connected devices comply with)
Ports	TL-POE150S: • 10/100/1000 Mbps Auto-Negotiation RJ45 **LAN IN** Port • 10/100/1000 Mbps Auto-Negotiation RJ45 **POWER+DATA OUT** Port • **DC 48 V** Power Input Port TL-POE160S: • 10/100/1000 Mbps Auto-Negotiation RJ45 **DATA IN** Port • 10/100/1000 Mbps Auto-Negotiation RJ45 **PWR+DATA OUT** Port • **AC 100–240 V 50/60 Hz** Power Input Port TL-POE10R: • 10/100/1000 Mbps Auto-Negotiation RJ45 **POWER+DATA IN** Port • 10/100/1000 Mbps Auto-Negotiation RJ45 **LAN OUT** Port • 5 V/9 V/12 V **DC OUT** Power Output Port
Wall Mountable	TL-POE150S/TL-POE10R: No TL-POE160S: Yes

Environmental and Physical Specifications

Operating Temperature	0˚C to 40˚C (32˚F to 104˚F)
Storage Temperature	-40˚C to 70˚C (-40˚F to 158˚F)
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 90% non-condensing

Safety Information

- Keep the device away from water, fire, humidity or hot environments.
- Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
- Do not use any other chargers than those recommended.
- Do not use damaged charger or USB cable to charge the device.
- Adapter shall be installed near the equipment and shall be easily accessible.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

EU Declaration of Conformity

TP-Link hereby declares that the device is in compliance with the essential requirements and other relevant provisions of directives 2014/30/EU, 2014/35/EU, 2009/125/EC, 2011/65/EU and (EU)2015/863.
The original EU declaration of conformity may be found at https://www.tp-link.com/en/ce.