

1. Introduction

1.1 Packet Contents

Thank you for purchasing our POE-151 IEEE 802.3af Power over Ethernet Injector, your Power over Ethernet Injector package shall contains following contents:

Check the contents of your package for following parts:

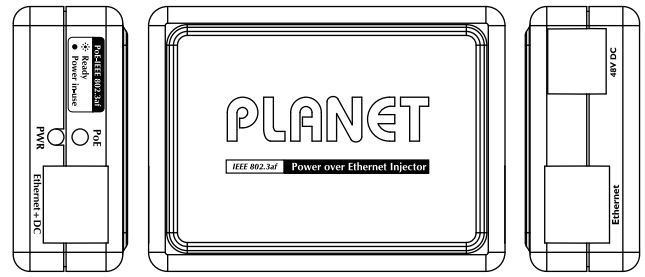
- Power over Ethernet Injector x 1
- User's Manual x 1
- Power Adapter x 1
- Power Cord x 1

If any of these pieces are missing or damaged, please contact your dealer immediately, if possible, retain the carton including the original packing material, and use them against to repack the product in case there is a need to return it to us for repair.

1.2 Key Features

- Comply with IEEE 802.3af Power over Ethernet, IEEE 802.3/802.3u 10/100Base-TX
- Provide DC 48V power over RJ-45 Ethernet cable to device with Ethernet port
- Auto-detect of PoE IEEE 802.3af equipment, protect devices from being damaged by incorrect installation
- Work with EIA568, category 5, 4-pair cables for 10Base-T or 100Base-TX

1.4 Product Outlook



LED Definition:

LED	Color	Function
Power	Yellow	Lights to indicate that the POE-151 has power
PoE ready / in-use	Green	Lights to indicate the port is providing 48VDC in-line power

1.3 Specification

Model	POE-151
Ethernet Connector	2 x RJ-45 (1 for data + DC in, 1 for Data out)
Ethernet Data rate	10/100Mbps (vary on Ethernet device attached)
Input voltage	DC 48V, 0.4A
Number of device can be powered	1
Ethernet cable	TIA/EIA-568, Category 5/5e cable
LED indicator	1 x power, 1 x PoE ready / in-use
Dimension (W x D x H)	73 x 55 x 24 mm
EMI	FCC Class B, CE mark
Standard Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3af Power over Ethernet
RJ-45 Power Insertion Pair	Pair 4, 5, 7, 8 (Mid-Span)

2. Hardware Installation


This product provides two different running speeds – 10Mbps, 100Mbps in the same device and automatically distinguishes the speed of incoming connection.

This section describes the hardware features of POE-151. Before connecting any network device to the POE-151, read this chapter carefully.

2.1 Before Installation

Before your installation, it is recommended to check your network environment. If there is any IEEE 802.3af devices need to power on, the POE-151 can provide you a way to supply power for this Ethernet device conveniently and easily. The POE-151 equips with an AC-DC adapter with DC 48V input and injects this DC power into the pin of the twisted pair cable (pair 4, 5 and pair 7, 8 for Fast Ethernet).

If there is very difficult to find a power socket for AC-DC Adapter of your non IEEE 802.3af networked device, the POE-151 and POE-151S can provide you a way to supply DC power for this Ethernet device conveniently and easily.



Note The POE-151 and POE-151S can be installed in pair. However, the use of third-party device is allowed if the device complied with IEEE 802.3af standard.



IEEE 802.3af | Power over Ethernet Injector

POE-151 | Power Provision without Area Restrictions



User's Manual



Energy Saving Note of the Device

This power required device does not support Stand by mode operation.
For energy saving, please remove the DC-plug or push the hardware Power Switch to OFF position to disconnect the device from the power circuit.
Without remove the DC-plug or switch off the device, the device will still consuming power from the power circuit. In the view of Saving the Energy and reduce the unnecessary power consuming, it is strongly suggested to switch off or remove the DC-plug for the device if this device is not intended to be active.

2.2 POE-151, the Injector installation

1. Connect a standard network cable from Switch/workstation to "Ethernet" port of POE-151.
2. Connect the long cable that will be used to connect to the remote device to the port "Ethernet+DC".
3. Connect the AC adapter to "DC 48V" of POE-151. The power LED will be steady on.
4. Connect with IEEE 802.3af devices, due to the capability of IEEE 802.3af standard, the POE-151 can directly connect with any IEEE 802.3af end-nodes like wireless access point, VoIP phones and Internet camera where support IEEE 802.3af In-line Power over Ethernet port. The screen in Figure 1 appears.

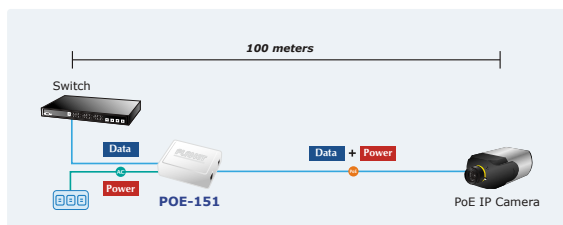


Figure 1: Connection to IEEE 802.3af device

Once POE-151 detects the existence of an IEEE 802.3af device, the LED indicator will be steady, ON to shows it is providing power.

If the connected device is not fully complying with IEEE 802.3af standard or in-line power device, the LED indicator of POE-151 will not be steady on.

2.3 POE-151 and POE-151S, the IEEE 802.3af Injector and Splitter installation

1. Connect a standard network cable from "Ethernet+DC" of POE-151 to "Ethernet+DC" of POE-151S. The POE LED of POE-151 / POE-151S will light on continuance.
2. Connect the UTP cable in the package from "Ethernet" of POE-151S to the RJ-45 port of remote device.
3. Connect proper DC plug from "DC OUT" of POE-151S to remote device.
4. Power on the remote device and the LED indicator on POE-151S will remains on.

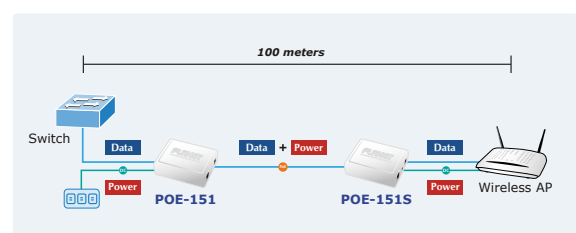


Figure 2: Connection architecture over POE-151/151S

1. According to IEEE 802.3af standard, the POE-151 will not inject power to the cable if not connecting to IEEE 802.3af devices.
2. Please ensure the output voltage is correct before applying power to remote device.