

TP-Link TL-PoE2412G

TP-Link TL-PoE2412G PoE Injector User Manual

Model: TL-PoE2412G

1. PRODUCT OVERVIEW

The TP-Link TL-PoE2412G is a passive Power over Ethernet (PoE) adapter designed to simultaneously supply power and transmit data to compatible PoE devices. It is ideal for extending network and power to devices like access points (APs), outdoor units, and customer premises equipment (CPE) where power outlets are not readily available. This injector supports Gigabit Ethernet speeds, ensuring high-speed data transfer for your network.

Key Features:

- 24V passive PoE support for various compatible devices.
- Automatic determination of necessary power requirements for connected devices.
- Convenient wall-mounting design for flexible placement and space-saving installation.
- Gigabit speed support for high-performance data transmission.
- Plug-and-play functionality, requiring no complex configuration.



Figure 1: Front view of the TP-Link TL-PoE2412G PoE Injector, showing the PoE and LAN ports, and the LED indicator.

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Video 1: Product Overview of the TP-Link PoE Injector. This video demonstrates the physical appearance and basic features of the TL-PoE2412G, including its compact size and port layout.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- 24V 12W Passive PoE Adapter (TL-PoE2412G)
- Power Cord
- Wall Mounting Kits

3. SETUP AND INSTALLATION

3.1 Connecting the PoE Injector

Follow these steps to connect your TL-PoE2412G PoE Injector:

1. Connect the power cord to the TL-PoE2412G and plug it into a standard electrical outlet.
2. Connect an Ethernet cable from your network device (e.g., router, switch) to the **LAN** port on the PoE Injector.
3. Connect another Ethernet cable from the **PoE** port on the PoE Injector to the PoE-compatible device you wish to power (e.g., access point, IP camera).
4. Ensure all connections are secure. The PoE Injector will automatically detect and provide the necessary power to the connected PoE device.

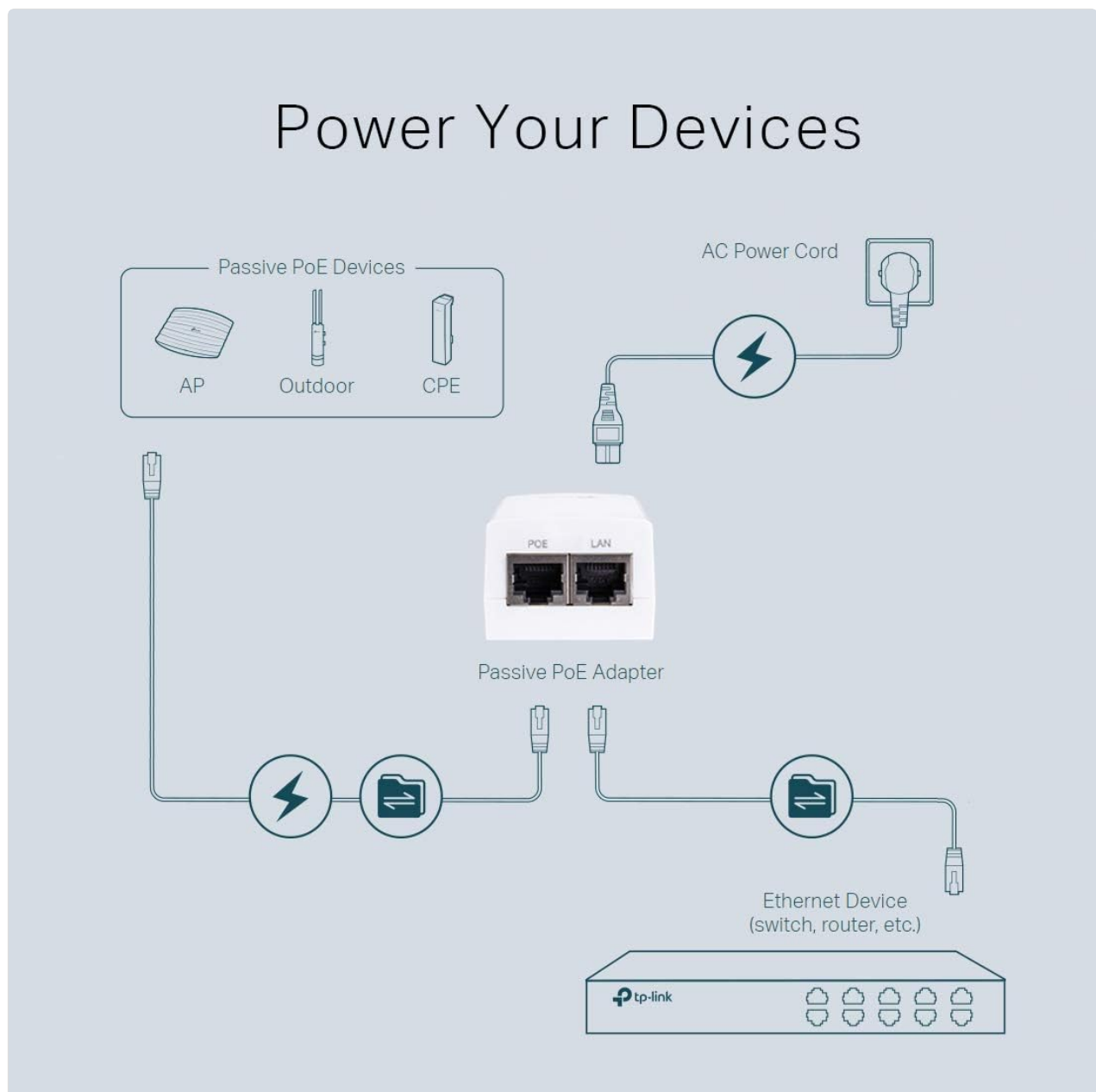


Figure 2: Connection diagram for the TL-PoE2412G, illustrating how to connect the AC power cord, an Ethernet device to the LAN port, and a Passive PoE device to the PoE port.

3.2 Wall Mounting

The TL-PoE2412G features a convenient wall-mountable design. Use the included wall mounting kits to secure the device to a wall.

1. Remove the mounting bracket from the back of the adapter.
2. Place the mounting bracket in the desired position on the wall and mark the positions for the screw holes.
3. Drill holes at the marked positions. Insert the plastic wall anchors into the holes if necessary.
4. Secure the mounting bracket to the wall with screws. Ensure the shoulders at the corners of the mounting bracket are pointing upward.
5. Attach the adapter to the mounting bracket by aligning the slots and sliding the adapter downward until it locks into place.

Convenient Wall-Mounting Design



Figure 3: Step-by-step guide for wall mounting the TL-PoE2412G, showing how to detach the bracket, mark holes, and secure the device.

4. OPERATION

4.1 LED Indicators

The TL-PoE2412G has a single LED indicator on its top surface to show its operational status:

LED Status	Indication
Green (Solid)	The PoE Injector is powered on and operating normally.
Off	The PoE Injector is powered off or not receiving power.



Figure 4: Top view of the TL-PoE2412G, highlighting the single LED indicator.

5. SPECIFICATIONS

Feature	Description
Brand	TP-Link
Model Number	TL-PoE2412G
PoE Standard	Passive PoE (24V)
Data Transfer Rate	Gigabit Ethernet (10/100/1000 Mbps)
Ports	1x LAN Port, 1x PoE Port
Input Voltage	100-240V AC
Output Voltage	24V DC
Dimensions (LxWxH)	3.38 x 1.73 x 1.26 inches
Weight	9.6 ounces
Color	White
Mounting	Wall-mountable

6. TROUBLESHOOTING

If you encounter issues with your TL-PoE2412G PoE Injector, refer to the following common problems and solutions:

- **No Power to PoE Device:**

- Ensure the power cord is securely connected to the injector and the electrical outlet.
- Verify that the electrical outlet is functional.
- Check if the LED indicator on the injector is solid green. If not, there might be a power issue.
- Confirm that the connected device is a 24V passive PoE compatible device. This injector does not support 802.3af/at active PoE.
- Ensure the Ethernet cable from the PoE port to the device is not damaged and is securely connected.

- **No Data Connection:**

- Check the Ethernet cables connected to both the LAN and PoE ports for secure connections and damage.
- Verify that the network device connected to the LAN port (e.g., router, switch) is functioning correctly.

- Ensure the PoE-powered device is also functioning correctly and its network interface is active.

- **Slow Network Speed:**

- Confirm that both the connected network device and the PoE-powered device support Gigabit Ethernet to achieve maximum speeds.
- Ensure you are using Cat5e or Cat6 Ethernet cables for Gigabit speeds.
- Check the length of the Ethernet cable; excessive length (over 100 meters) can degrade performance.

7. WARRANTY AND SUPPORT

For warranty information, technical support, and product registration, please visit the official TP-Link website or contact TP-Link customer support. Keep your purchase receipt for warranty claims.

You can find additional resources and frequently asked questions on the TP-Link support page.