

[Manuals.plus](#) /

› [TP-Link](#) /

› TP-Link AV600 Powerline Ethernet Adapter Kit User Manual

**TP-Link**

# TP-Link AV600 Powerline Ethernet Adapter Kit User Manual

Model: TL-PA4010 KIT

## 1. INTRODUCTION

The TP-Link AV600 Powerline Ethernet Adapter Kit (TL-PA4010 KIT) provides a simple and effective solution for extending your wired internet connection using your home's existing electrical wiring. This kit is ideal for situations where Wi-Fi signals are weak or unreliable, or where running new Ethernet cables is impractical. With advanced HomePlug AV technology, it delivers stable and high-speed data transmission, making it suitable for online gaming, HD video streaming, and other bandwidth-intensive activities.

## 2. PACKAGE CONTENTS

The TL-PA4010 KIT includes the following items:

- Two (2) TL-PA4010 Powerline Adapters
- Two (2) Ethernet Cables



Image: The retail packaging for the TP-Link AV600 Powerline Ethernet Adapter Kit, showing the two compact adapters and included Ethernet cables.

### 3. PRODUCT OVERVIEW

Each TL-PA4010 Powerline Adapter features a compact design with LED indicators to show its status and an Ethernet port for network connectivity.

#### 3.1. Physical Appearance



Image: A detailed view of one TL-PA4010 adapter, highlighting its compact size and the location of the LED indicators and Pair button.

### 3.2. LED Indicators

Indicator	Status	Description
Power	On	The powerline adapter is powered on.
Powerline	On	The powerline adapter is connected to a powerline network.
	Off	The powerline adapter is not connected to a powerline network.
Ethernet	On	The Ethernet port is connected.
	Off	The Ethernet port is not connected.

## 4. SETUP

The TL-PA4010 KIT is designed for plug-and-play installation, requiring no complex configuration. Follow these simple steps to set up your powerline network:

- 1. Plug in the First Adapter:** Plug one powerline adapter into a wall outlet near your internet router.
- 2. Connect to Router:** Use one of the provided Ethernet cables to connect the powerline adapter to an available LAN port on your router.
- 3. Plug in the Second Adapter:** Plug the second powerline adapter into a wall outlet in the room where you need

internet access (e.g., near your computer, smart TV, or gaming console).

4. **Connect to Device:** Use the second Ethernet cable to connect the second powerline adapter to the Ethernet port of your desired device.

#### Important Considerations:

- For optimal performance, powerline adapters should be plugged directly into a wall outlet. They may not function correctly or at full speed when connected through surge protectors, power strips, or extension cords.
- Both powerline adapters must be on the same electrical circuit to establish a connection.

## Plug and Play. No Configuration Required.



You can set up a hassle-free Powerline network within minutes with TP-Link's powerline adapters, just plug in and play. Also, the adapters' "Pair" buttons can be utilized for securing or managing multiple powerline adapters in your home powerline network.

Image: A visual guide demonstrating the simple plug-and-play setup process for the powerline adapters, connecting them to a router and an end device.

#### 4.1. Pairing for Security (Optional)

While the adapters typically pair automatically, you can enhance security by manually pairing them. This creates a private powerline network key.

1. Press the Pair button on one adapter for 1 second. The Power LED will start blinking.
2. Within 2 minutes, press the Pair button on the second adapter for 1 second. The Power LED on both adapters will turn solid, indicating successful pairing.

## 4.2. Setup Video Guide

Video: A step-by-step tutorial demonstrating how to set up the TP-Link powerline adapter kit, including connecting the devices and ensuring proper functionality. (Duration: 2:08)

## 5. OPERATION

Once set up, the powerline adapters automatically establish a network connection over your electrical wiring. Your connected devices will have wired internet access as if they were directly connected to your router.

### 5.1. Ideal Usage Scenarios

The TL-PA4010 KIT is particularly effective for:

- Extending wired network connectivity to areas with weak Wi-Fi coverage.
- Providing stable connections for bandwidth-intensive applications like HD streaming and online gaming.
- Connecting devices in multi-story homes, basements, attics, or garages where traditional cabling is difficult.

## Ideal for HD Streaming

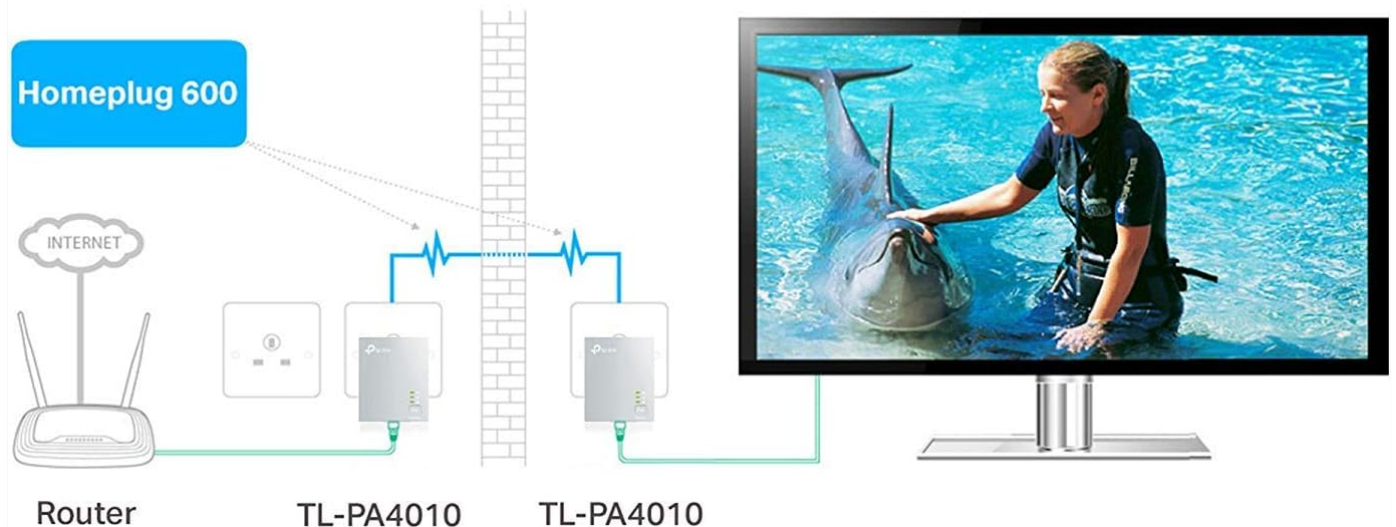


Image: A diagram showing how the powerline adapters facilitate HD streaming by extending the network connection from the router to a distant smart TV via electrical outlets.

### 5.2. Power Saving Mode

The adapters feature an intelligent power-saving mode that automatically reduces power consumption by up to 85% when no data is being transmitted. This occurs when connected devices are turned off or inactive for a period.



Image: A graphic illustrating the significant power saving capability of the powerline adapters, indicating up to 85% less power consumption.

## 6. TROUBLESHOOTING

If you encounter issues with your TP-Link AV600 Powerline Ethernet Adapter Kit, refer to the following common troubleshooting steps:

### 6.1. No Powerline Connection (Powerline LED Off/Blinking)

- **Check Power:** Ensure both adapters are securely plugged into live wall outlets.
- **Direct Connection:** Make sure adapters are plugged directly into wall outlets, not into surge protectors, power strips, or extension cords. These can filter out the powerline signal.
- **Same Electrical Circuit:** Verify that both adapters are on the same electrical circuit. Powerline communication cannot cross different electrical phases or circuits.
- **Re-pair Adapters:** If the Powerline LED is off or blinking, the adapters might have lost their pairing. Follow the pairing steps in Section 4.1 to re-establish the connection.

### 6.2. Slow or Unstable Connection

- **Electrical Noise:** High-power electrical appliances (e.g., washing machines, refrigerators, air conditioners) on the same circuit can cause interference. Try plugging adapters into outlets further away from such appliances.
- **Wiring Quality and Distance:** The quality and length of your home's electrical wiring can affect performance. Older wiring or very long distances between adapters may result in lower speeds.
- **Network Congestion:** Ensure your internet service plan supports the speeds you expect. Powerline speeds cannot exceed your internet plan's limit.
- **Interference:** Other powerline devices or certain electrical devices might cause interference.

### 6.3. No Ethernet Connection (Ethernet LED Off)

- **Check Ethernet Cables:** Ensure all Ethernet cables are securely connected to both the powerline adapters and your network devices (router, computer, etc.). Try swapping cables.
- **Device Status:** Verify that the connected device (computer, smart TV) is powered on and its network adapter is enabled.

## 7. SPECIFICATIONS

Feature	Detail
Brand	TP-Link
Series	Powerline Adapter
Model Number	TL-PA4010KIT
Data Transfer Rate	Up to 600 Mbps (Powerline), 100 Mbps (Ethernet Port)
Data Link Protocol	Ethernet
Dimensions (L x W x H)	2 x 2.6 x 1.1 inches (51 x 66 x 28.5 mm)
Item Weight	11.7 ounces
Color	White
Operating System Compatibility	Windows 10/8.1/8/7/Vista/XP/2000, Mac, Linux
UPC	845973032029

## 8. MAINTENANCE

To ensure optimal performance and longevity of your powerline adapters, follow these general maintenance guidelines:

- **Cleaning:** Keep the adapters clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure adequate ventilation around the adapters. Do not block the ventilation holes.
- **Environment:** Avoid placing adapters in direct sunlight, near heat sources, or in excessively humid environments.
- **Handling:** Handle the adapters with care. Avoid dropping them or subjecting them to strong impacts.

## 9. WARRANTY AND SUPPORT

TP-Link products typically come with a standard manufacturer's warranty. For detailed warranty information, product registration, and technical support, please visit the official TP-Link website or refer to the warranty card included with your product.

TP-Link is committed to cybersecurity. As a signatory of the U.S. Cybersecurity and Infrastructure Security Agency's (CISA) Secure-by-Design pledge, TP-Link ensures advanced security is a core requirement in the design, building, and maintenance of its products.

For further assistance, you can contact TP-Link customer support through their official channels.