

TP-Link TL-WPA7817 KIT

TP-Link Powerline Wi-Fi 6 Extender TL-WPA7817 KIT User Manual

Model: TL-WPA7817 KIT | Brand: TP-Link

INTRODUCTION

The TP-Link Powerline Wi-Fi 6 Extender TL-WPA7817 KIT is designed to transform your home's existing electrical circuit into a high-speed network, providing both wired and wireless connectivity. This kit includes two powerline adapters: the TL-WPA7817 and the TL-PA7017. It leverages advanced HomePlug AV2 technology to deliver stable, high-speed Wi-Fi and wired connections, extending your network coverage to areas previously unreachable by traditional Wi-Fi.

This device is ideal for individuals who need to extend their Wi-Fi or wired connections in areas blocked by thick walls, where standard routers or range extenders may not be effective. It offers AX1500 dual-band Wi-Fi speeds and AV1000 powerline speeds, ensuring seamless HD streaming, online gaming, and large file downloads.



Image: The TL-WPA7817 KIT, showing the larger TL-WPA7817 Wi-Fi extender and the smaller TL-PA7017 powerline adapter.

WHAT'S IN THE BOX

The TL-WPA7817 KIT package contains the following items:

- AX1500 Powerline Wi-Fi 6 Kit: TL-WPA7817 & TL-PA7017
- 2 × Ethernet Cables
- 1 × Quick Installation Guide

SETUP GUIDE

Setting up your TP-Link Powerline Wi-Fi 6 Extender is a simple process, often referred to as "Plug, Pair, and Play."

Initial Connection

1. **Connect the TL-PA7017:** Plug the TL-PA7017 powerline adapter into a wall outlet near your router. Connect it to your router using one of the provided Ethernet cables.
2. **Plug in the TL-WPA7817:** Plug the TL-WPA7817 Wi-Fi extender into a wall outlet in the area where you need extended wired and wireless internet coverage.
3. **Pair the Adapters:** Press the "Pair" button on the TL-PA7017 for one second. Within two minutes, press the "Pair" button on the TL-WPA7817 for one second. The Powerline LED on both devices should turn solid, indicating a successful connection.

Plug, Pair, and Play

1. Connect the TL-PA7017 to your router.
2. Plug the TL-WPA7817 to an outlet wherever you need wired and wireless internet.
3. Press Pair on both adapters.



Image: Visual representation of the Plug, Pair, and Play setup process for the TL-PA7017 and TL-WPA7817 units.

Important Note:

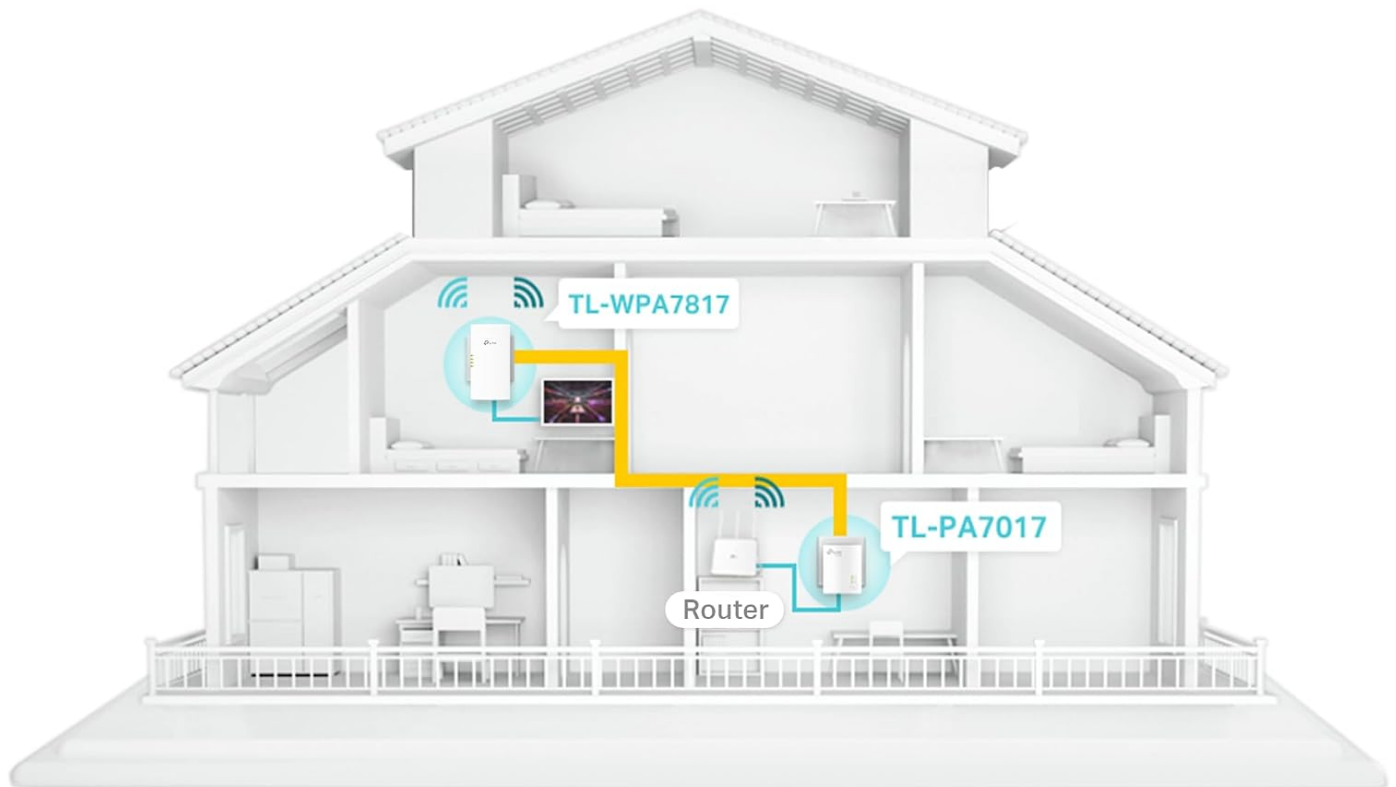
- Powerline adapters must be deployed in sets of two or more.
- Adapters must be on the same electrical circuit for connectivity.
- Requires direct outlet plug-in. Does not work with surge protectors.



HomePlug AV2
AV1000 Powerline Speeds



AX1500
Dual Band Wi-Fi



2.4 GHz 300Mbps



Powerline



5 GHz 1201Mbps



Ethernet Cable

Appliances and devices running on the same circuit may affect powerline performance.

Image: Diagram illustrating how the TL-PA7017 and TL-WPA7817 extend network coverage throughout a multi-story home using existing electrical wiring.

For individuals who are not able to extend their Wi-Fi or wired connections in areas blocked by thick walls

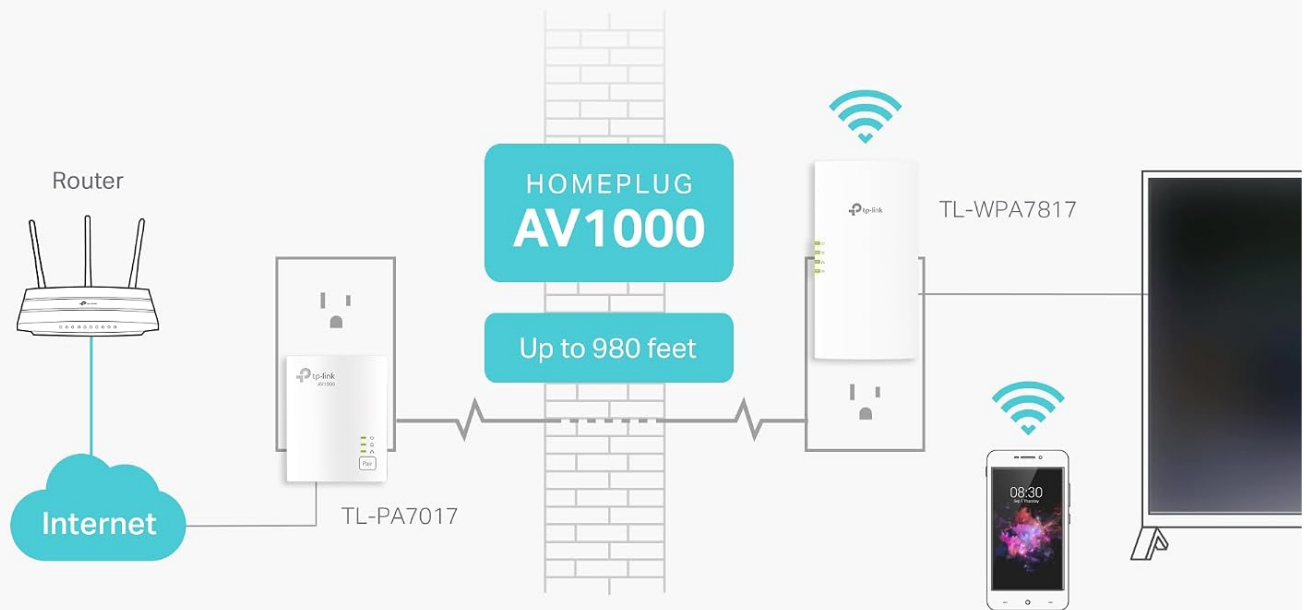


Image: Illustration showing how the HomePlug AV1000 powerline technology extends internet connectivity up to 980 feet, bypassing thick walls that obstruct Wi-Fi signals.

OPERATING YOUR POWERLINE EXTENDER

One-Click Wi-Fi Configuration

The TL-WPA7817 KIT features a Wi-Fi Clone button that allows you to instantly clone your router's network name (SSID) and password. This creates a unified network, meaning you don't need to remember multiple Wi-Fi credentials. Any Wi-Fi settings adjustments made on one powerline adapter are automatically synchronized across the entire powerline network.

One Click for a Unified Network



One-Click Wi-Fi Configuration



Image: Diagram illustrating the One-Click Wi-Fi Configuration feature, showing how Wi-Fi settings are automatically synchronized across devices for a unified network.

Gigabit Ethernet Port

The TL-WPA7817 extender is equipped with a Gigabit Ethernet port, providing reliable, high-speed wired connections. This is ideal for high-bandwidth devices such as game consoles, smart TVs, and NAS devices, ensuring stable performance for demanding applications.

Gigabit Ethernet for Fast Wired Connections

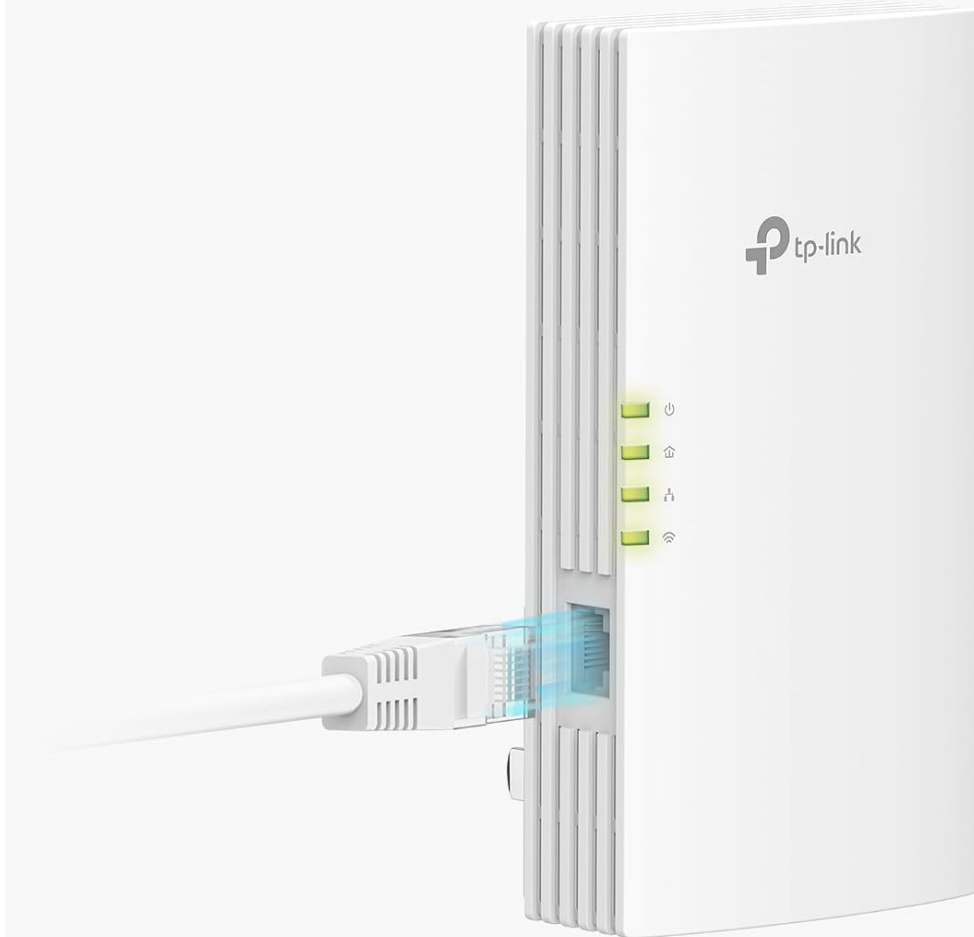


Image: Close-up view of the Gigabit Ethernet port on the TL-WPA7817, with an Ethernet cable connected, highlighting its capability for fast wired connections.

Advanced Features

The TL-WPA7817 KIT supports a range of advanced features to optimize your network performance:

- **Smart Connect (Band Steering):** Automatically directs devices to the optimal Wi-Fi band (2.4 GHz or 5 GHz) for better performance.
- **Beamforming:** Focuses Wi-Fi signals towards connected devices for stronger, more reliable connections.
- **MU-MIMO & OFDMA:** Improves efficiency by allowing the extender to communicate with multiple devices simultaneously.
- **TWT (Target Wake Time):** Reduces power consumption for connected devices.
- **BSS Color:** Minimizes interference from neighboring networks.
- **Guest Network:** Provides a separate Wi-Fi network for guests, enhancing security.
- **AP Mode:** Allows the extender to function as an access point.

- **Parental Control & QoS:** Manage internet access and prioritize traffic for specific devices or applications.
- **WPA3:** Enhanced Wi-Fi security protocol.

MAINTENANCE AND MANAGEMENT

You can effortlessly control and manage your powerline network using various interfaces:

- **Web Interface:** Access the extender's settings through a web browser for detailed configuration.
- **tpPLC Desktop Application:** A user-friendly desktop utility for managing your powerline devices.
- **tpPLC Mobile App:** An intuitive mobile application for convenient network management on your smartphone or tablet.

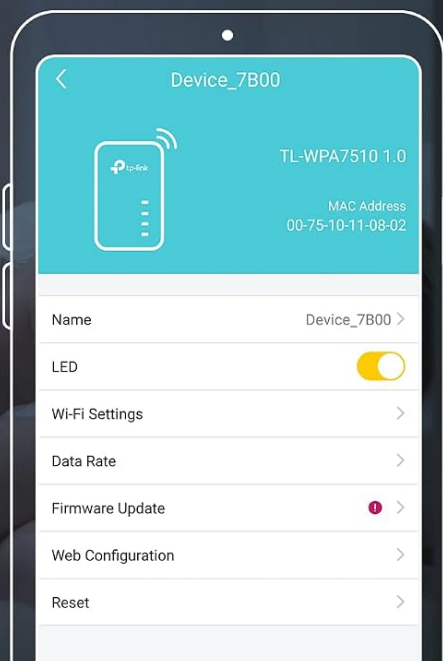
Using the tpPLC App

The tpPLC app allows you to:

- View real-time powerline speed.
- Control LED indicators (also controllable via a physical LED On/Off button).
- Manage Guest Network settings.
- Perform one-click firmware updates.

Powerline Management on Your Smartphone

- View real-time powerline speed
- LED control (also controlled by LED On/Off button)
- Guest network
- One-click firmware update



Scan the QR code to download TP-Link tpPLC app.

Image: Screenshot of the tpPLC mobile app interface, showing options for LED control, Wi-Fi settings, data rate, and firmware updates. A QR code is provided to download the app.

Scan the QR code or visit tp-link.com/app/qrcode/?app=tp-plc to download the TP-Link tpPLC app.

TROUBLESHOOTING

If you encounter issues with your Powerline Wi-Fi 6 Extender, consider the following common scenarios and solutions:

No Powerline Connection / Low Speeds

- **Electrical Circuit:** Ensure all powerline adapters are on the same electrical circuit. Connectivity may be affected if adapters are on different circuits or separated by multiple service panels.
- **Direct Outlet:** Always plug the adapters directly into a wall outlet. Do not use surge protectors, power strips, or extension cords, as these can interfere with powerline signal transmission.

- **Electrical Interference:** Other electrical devices (e.g., washing machines, refrigerators, microwaves) plugged into the same circuit can cause interference. Try moving the adapters to different outlets or turning off interfering devices temporarily to diagnose.
- **Wiring Quality:** Older or poor-quality electrical wiring in your home can significantly impact powerline speeds and stability.
- **Distance:** While powerline technology can cover up to 980 feet, very long distances or complex electrical paths can reduce performance.

Wi-Fi Issues

- **Signal Strength:** Ensure the TL-WPA7817 is placed in a central location within the desired coverage area.
- **Wi-Fi Clone:** If you used the Wi-Fi Clone feature, verify that the SSID and password on the extender match your router's. If not, re-clone or manually configure.
- **Device Limits:** The AX1500 Wi-Fi 6 supports connecting up to 64 devices. Exceeding this limit may cause performance issues.

General Advice

- **Firmware Update:** Regularly check for and install the latest firmware updates via the tpPLC app or TP-Link website to ensure optimal performance and compatibility.
- **Reset:** If problems persist, you may perform a factory reset on the devices (refer to the Quick Installation Guide for specific steps).

SPECIFICATIONS

Feature	Detail
Model Number	TL-WPA7817 KIT
Brand	TP-Link
Package Dimensions	9.09 x 7.52 x 4.02 inches
Item Weight	8.8 ounces (0.55 Pounds)
Hardware Interface	Ethernet
Color	White
Compatible Devices	Smart TV, Desktop, Internet Protocol Camera, Smartphone, Game Console
Data Link Protocol	WiFi
Data Transfer Rate	1000 Megabits Per Second (Powerline AV1000)
Wi-Fi Standard	Wi-Fi 6 (AX1500 Dual-Band)
Operating Temperature	32°F to 104°F (0°C to 40°C)
Operating Humidity	10%-90% non-condensing
Certifications	FCC, ETL

Feature	Detail
UPC	840030711688

WARRANTY AND SUPPORT

Legal Disclaimer

The following information is provided for your awareness regarding product performance and compatibility:

- Maximum wireless signal rates are physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and coverage are not guaranteed and will vary due to environmental factors (building materials, obstacles), network conditions (interference, traffic, product location), and client limitations.
- Maximum Powerline signal rates are physical rates derived from HomeplugAV/AV2 specifications. Actual Powerline data throughput and range are not guaranteed and will vary due to network conditions and environmental factors (electrical interference, traffic, AFCI circuit breakers, and adapters separated between two or more service panels).
- TP-Link EasyMesh-compatible products can network with other devices that use EasyMesh. Failed connections may be due to firmware conflicts of different vendors.
- Compatible with all HomePlug AV and AV2 Standard Powerline adapters. This product may not be compatible with routers or gateways with altered firmware, open-source programs, or non-standard/outdated configurations.
- Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the network cable's supported rate, Internet service provider factors, and other environmental conditions.

Customer Support

For further assistance, technical support, or warranty information, please visit the official TP-Link website or contact their customer service. You can also utilize the tpPLC app for device management and firmware updates.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Will the TP-Link TL-WPA7817 Kit (US) work with 220V/60Hz power outlets?

The provided documentation for the TP-Link TL-WPA7817 KIT does not explicitly state the supported voltage and frequency range for its power adapters. However, the product is listed as a 'Kit(Us)', which typically indicates it...

[Read full answer](#)