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› TP-Link Powerline WiFi Extender TL-WPA7617 User Manual

## TP-Link TL-WPA7617

# TP-Link Powerline WiFi Extender TL-WPA7617 User Manual

Model: TL-WPA7617 | Brand: TP-Link

## INTRODUCTION

The TP-Link TL-WPA7617 is a Homeplug AV2 compliant powerline Wi-Fi extender designed to expand your network. It offers AV1000 wired speeds and dual-band Wi-Fi speeds of 867 Mbps on the 5GHz band and 300 Mbps on the 2.4GHz band. This device is suitable for applications requiring stable network connections, such as smart TVs, game consoles, HD video streaming, and online gaming.

The terms "AV1000" and "1000Mbps" refer to the theoretical maximum physical-layer data transfer rate. Actual data speeds may vary due to network conditions, electrical noise, and wiring issues. For optimal performance, powerline devices should be on the same electrical circuit and rated for the same HomePlug standard. The TL-WPA7617 is an add-on unit, requiring a minimum of two powerline devices for connection.



## WHAT'S IN THE BOX

- AV1000 Powerline Wi-Fi: TL-WPA7617 Unit
- Ethernet Cable
- Quick Installation Guide

## SETUP

### Device Overview and Dimensions

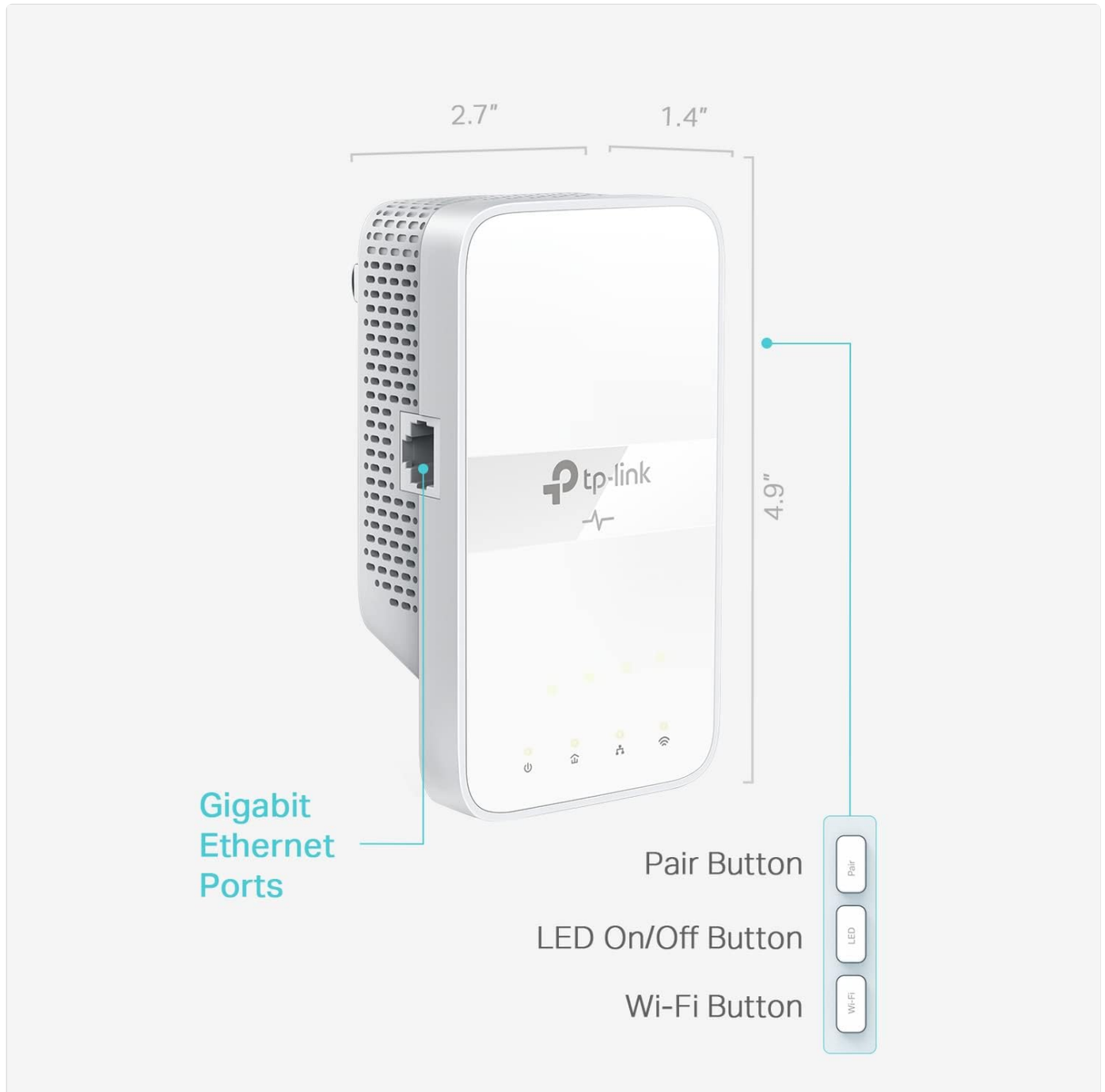


Figure 2: TL-WPA7617 with dimensions (4.9"L x 2.7"W x 1.4"H) and key components including Gigabit Ethernet Ports, Pair Button, LED On/Off Button, and Wi-Fi Button.

## Plug and Play Installation

The TL-WPA7617 is designed for easy setup without complex configuration. To establish a powerline connection:

1. Plug the TL-WPA7617 unit into a wall socket near one of your existing powerline devices (e.g., a powerline adapter connected to your router).
2. Ensure both powerline devices are plugged into wall outlets directly, not into surge protectors or power strips, for optimal performance.
3. Press the "Pair" button on the TL-WPA7617 unit.
4. Within two minutes, press the "Pair" button on your existing powerline device.
5. The Powerline LED indicator on both devices should turn solid, indicating a successful connection.

**Note:** The TL-WPA7617 is an add-on unit and requires at least one other HomePlug AV/AV2 compatible powerline device to function as part of a powerline network.



Figure 3: Visual guide for Plug and Play setup, showing two powerline devices pairing.

### One-Touch Wi-Fi Configuration (Wi-Fi Clone)

To unify your Wi-Fi network and extend your existing router's Wi-Fi settings (SSID and password) to the TL-WPA7617:

1. Ensure your router supports WPS (Wi-Fi Protected Setup).
2. Press the Wi-Fi button on the TL-WPA7617 unit.
3. Within two minutes, press the WPS button on your router.
4. The Wi-Fi settings from your router will be automatically copied to the TL-WPA7617, creating a seamless roaming experience with a single Wi-Fi network name.

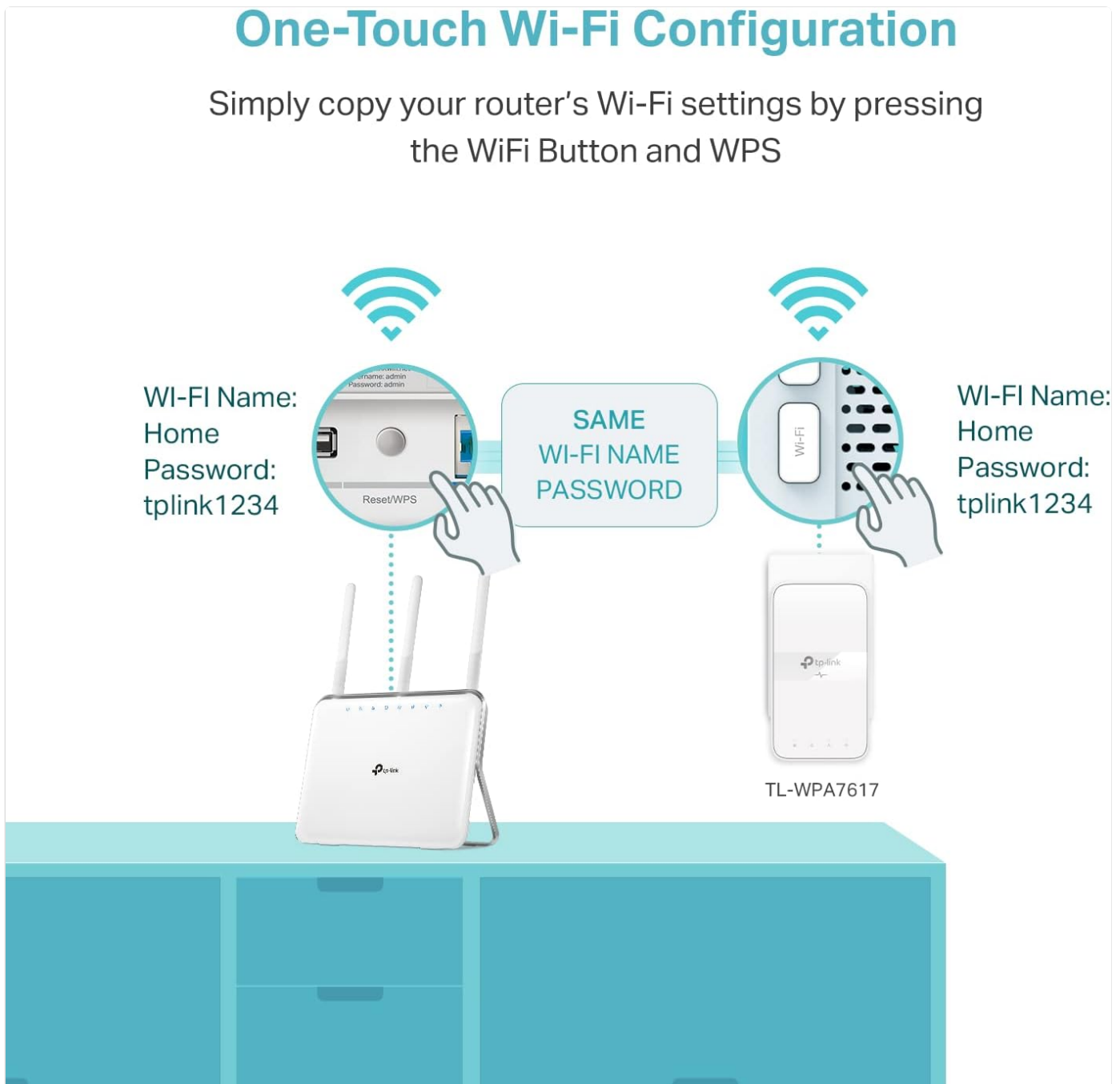


Figure 4: One-Touch Wi-Fi Configuration process, illustrating how to clone router Wi-Fi settings.

## OPERATING THE EXTENDER

### Network Extension Capabilities

The TL-WPA7617 extends both wired and wireless network coverage. It utilizes existing electrical wiring to transmit data, providing connectivity up to 750 feet through walls and other barriers. This makes it suitable for multi-story homes, basements, attics, and garages where traditional Wi-Fi signals may be weak.

### Dual-Band Wi-Fi

The extender supports AC1200 dual-band Wi-Fi, offering speeds of 867 Mbps on the 5GHz band and 300 Mbps on the 2.4GHz band. The 5GHz band is ideal for high-bandwidth activities like HD streaming and online gaming, while the 2.4GHz band provides broader coverage for general internet use.

## Gigabit Ethernet Port

Equipped with a Gigabit Ethernet port, the TL-WPA7617 allows for a secure wired connection to devices such as desktop computers, smart TVs, and game consoles. An Ethernet cable is included for direct connection. For expanding wired connections, an additional Ethernet switch (sold separately) can be used.

## OneMesh Compatibility

The TL-WPA7617 works with TP-Link OneMesh compatible routers or mesh Wi-Fi systems to create a unified network. This feature enables smart roaming, ensuring uninterrupted streaming and connectivity as you move around your home, without needing to manually switch Wi-Fi network names.

## MAINTENANCE

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### Power Saving Mode

The device features a power-saving mode to reduce energy consumption. When no data is being transmitted or received for a certain period, the device will automatically enter a low-power state. This helps in reducing electricity costs.

### LED Control

The LED On/Off button allows you to control the status indicator lights on the device. This can be useful for reducing light pollution in bedrooms or other areas where bright LEDs might be distracting.

## TROUBLESHOOTING

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### Connectivity Issues

- **No Powerline Connection:** Ensure all powerline adapters are plugged into wall outlets directly, not into surge protectors or power strips. Adapters must be on the same electrical circuit for connectivity.
- **Slow Speeds:** Actual data speeds may be lower than theoretical maximums due to wiring quality, adapter distance, electrical noise, and network interference. Avoid plugging devices into outlets on different electrical phases if possible.
- **Intermittent Connection:** Check for sources of electrical noise near the powerline devices, such as large appliances, motors, or other electronic devices. Try relocating the powerline adapters to different outlets.

### Wi-Fi Issues

- **Wi-Fi Not Extending:** If using the Wi-Fi Clone feature, ensure the WPS button on your router was pressed within two minutes of pressing the Wi-Fi button on the extender. If issues persist, manual configuration via the TP-Link utility may be required.
- **Weak Wi-Fi Signal:** Environmental factors like building materials, physical objects, and obstacles can affect wireless coverage. Position the extender in an open area, away from large metal objects or thick walls.

### General Advice

If you are uncertain about your network conditions or encounter persistent issues, consulting an IT professional is recommended.

## SPECIFICATIONS

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Feature	Detail
Model Number	TL-WPA7617
Product Dimensions	2.74 x 1.38 x 4.89 inches (4.9"L x 2.7"W x 1.4"H)
Item Weight	7 ounces (0.44 Pounds)
Hardware Interface	Ethernet
Color	White
Compatible Devices	Desktop, Smart TVs, Game Consoles, Laptops
Data Link Protocol	Ethernet
Data Transfer Rate	AV1000 Powerline (1000 Mbps), AC1200 Wi-Fi (867 Mbps on 5GHz, 300 Mbps on 2.4GHz)
UPC	840030707650
Country of Origin	Vietnam

## WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the official TP-Link website or the Quick Installation Guide included with your product.

Additional resources:

- [Installation Manual \(PDF\)](#)
- [User Manual \(PDF\)](#)
- Visit the [TP-Link Store on Amazon](#) for more products and information.

TP-Link is a signatory of the U.S. Cybersecurity and Infrastructure Security Agency's (CISA) Secure-by-Design pledge, ensuring advanced security as a core requirement in their products.

