

TP-Link TL-WPA4220 KIT

TP-Link AV600 Powerline WiFi Extender (TL-WPA4220 KIT) Instruction Manual

MODEL: TL-WPA4220 KIT | BRAND: TP-LINK

1. Introduction

The TP-Link AV600 Powerline WiFi Extender (TL-WPA4220 KIT) utilizes advanced HomePlug AV technology to extend your internet access throughout your home using existing electrical wiring. This kit allows you to create strong, reliable Wi-Fi connections and expand wired network access to any room without the need for new wires or drilling. It's ideal for connecting smart TVs, streaming players, and game consoles for high-definition video streaming and lag-free online gaming.

The kit includes two devices: a Powerline Adapter and a Powerline WiFi Extender. The Powerline Adapter connects to your router and an electrical outlet, transmitting the internet signal through your home's electrical circuit. The Powerline WiFi Extender, placed in another room, receives this signal and broadcasts a Wi-Fi network while also providing Ethernet ports for wired connections.

Video: Overview of the TP-Link AV600 Powerline WiFi Extender. This video provides a general introduction to the product and its capabilities.

2. Package Contents

The TL-WPA4220 KIT package typically includes the following items:

- 1 x TL-PA4010 Powerline Adapter (smaller unit)
- 1 x TL-WPA4220 Powerline WiFi Extender (larger unit with Wi-Fi)
- 1 x Ethernet Cable
- Quick Installation Guide (QIG)



Image: The contents of the TP-Link Powerline WiFi Extender kit, showing both adapter units and an Ethernet cable.

3. Setup Instructions

Setting up your TP-Link Powerline WiFi Extender is a simple plug-and-play process. Follow these steps for a quick and secure network extension:

1. **Connect the Powerline Adapter:** Plug the smaller Powerline Adapter (TL-PA4010) directly into a wall outlet near your internet router. Connect one end of the provided Ethernet cable to the adapter's Ethernet port and the other end to an available LAN port on your router.
2. **Connect the Powerline WiFi Extender:** Plug the larger Powerline WiFi Extender (TL-WPA4220) directly into a wall outlet in the room where you want to extend your Wi-Fi and wired network. Ensure both devices are on the same electrical circuit for optimal performance.
3. **Wait for Powerline LED:** Wait until the Powerline LED (house icon) on the extender turns solid green. This indicates a successful powerline connection.
4. **Pair the Devices (Optional, for security):** To secure your powerline network, press the Pair button on the Powerline Adapter for 1 second. Within two minutes, press the Pair button on the Powerline WiFi Extender for 1 second. The Powerline LED on both devices will blink and then turn solid, indicating a secure connection.
5. **Connect to Wi-Fi:** On your Wi-Fi enabled devices (smartphone, tablet, laptop), connect to the Wi-Fi network broadcast by the extender. The default SSID (network name) and password can be found on

the product label located on the back of the extender.

6. **Extend Wired Connections:** Use additional Ethernet cables to connect wired devices (e.g., smart TV, game console, PC) to the Ethernet ports on the Powerline WiFi Extender.

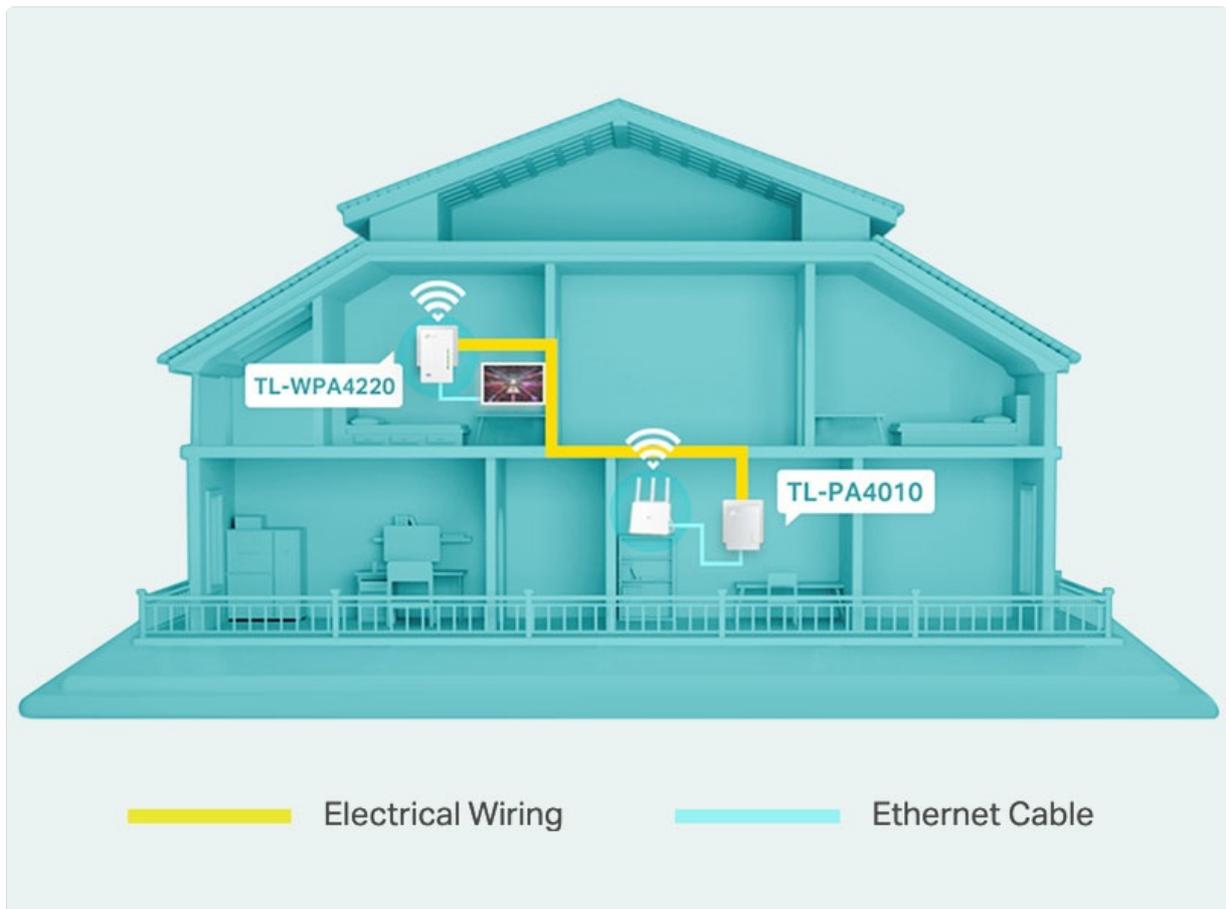


Image: A diagram illustrating how the Powerline WiFi Extender uses existing electrical wiring to extend network coverage throughout a home.

Video: Official TP-Link guide on how to set up the Powerline Wi-Fi Kit, demonstrating the connection and pairing process.

4. Operating Instructions

Once set up, your Powerline WiFi Extender operates automatically. Here are some key features and how to use them:

- **Wi-Fi Auto-Sync:** The TL-WPA4220 features Wi-Fi Auto-Sync, which automatically copies your router's Wi-Fi name (SSID) and password. This creates a seamless unified home network, allowing your devices to roam freely without manual reconnection.
- **Ethernet Ports:** The Powerline WiFi Extender is equipped with two Ethernet ports, allowing you to connect multiple wired devices for stable and high-speed internet access.
- **Power Saving Mode:** The device automatically reduces power consumption by up to 85% when not actively transmitting data.
- **tpPLC App Management:** For advanced management and monitoring of your powerline network, download the tpPLC App on your smartphone. This app allows you to view connected devices, manage Wi-Fi settings, and control LED indicators.

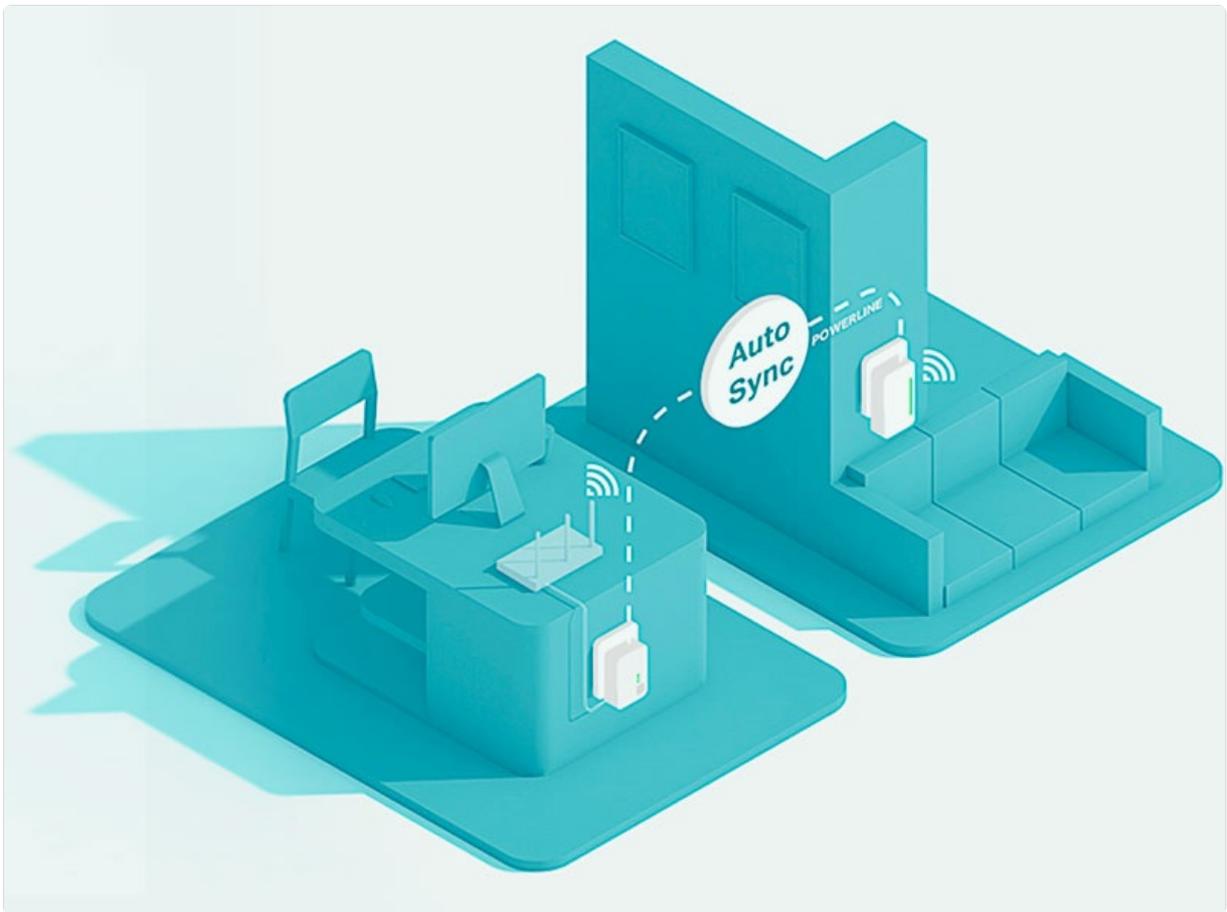


Image: A visual representation of the Wi-Fi Auto-Sync feature, showing how the extender creates a unified network with the main router.

5. Physical Appearance and LED Indicators

Understanding the LED indicators on your Powerline devices can help you monitor their status:

LED Indicators and Their Status

LED	Status	Description
Power	On	The powerline adapter/extender is on.
	Quickly Flashing	Pairing is in process.
	Slowly Flashing	Power Saving Mode is on (TL-PA4010 only).
	Off	The powerline adapter/extender is off.
Powerline (house icon)	On	The powerline adapter/extender is connected to a powerline network.
	Off	The powerline adapter/extender is not connected to any powerline network.
Ethernet (Ethernet port icon)	On	The Ethernet port is connected or not connected.
Wi-Fi (Wi-Fi icon)	On	The wireless function is enabled.

LED	Status	Description
	Blinking	The powerline extender is syncing wireless network settings.
	Off	The wireless function is disabled.

Note: The TL-PA4010 (adapter) has Power, Powerline, and Ethernet LEDs. The TL-WPA4220 (extender) has Power, Powerline, Ethernet, and Wi-Fi LEDs.



Image: Visual representation of the Powerline Adapter and Powerline WiFi Extender, highlighting their respective LED indicators and ports.

6. Maintenance

To ensure the longevity and optimal performance of your TP-Link Powerline WiFi Extender, consider the following maintenance tips:

- **Direct Wall Outlet Connection:** Always plug powerline devices directly into wall outlets. Avoid using power strips, extension cords, or surge protectors, as these can interfere with the powerline signal and reduce performance.
- **Same Electrical Circuit:** For best performance, ensure all powerline devices are deployed on the same electrical circuit.
- **Avoid Interference:** Appliances and devices running on the same electrical circuit may affect powerline performance. Try to plug the powerline devices into outlets that are not shared with high-power consumption appliances.
- **Keep Clean:** Regularly clean the devices with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Ventilation:** Ensure the devices have adequate ventilation and are not covered, to prevent overheating.

7. Troubleshooting

If you encounter issues with your Powerline WiFi Extender, refer to the following common troubleshooting tips:

- **No Powerline Connection (Powerline LED Off):**
 - Ensure both powerline devices are plugged into live electrical outlets.
 - Verify that both devices are on the same electrical circuit.
 - Avoid plugging devices into power strips or surge protectors.
 - Try plugging the devices into different wall outlets to rule out faulty outlets.
- **Poor Powerline Performance:**

- Electrical noise from other appliances (e.g., washing machines, refrigerators) can affect performance. Try moving powerline devices away from such appliances.
 - Ensure the electrical wiring in your home is in good condition. Older or complex wiring can impact performance.
 - If possible, use the tpPLC App to check the powerline rate between the adapter and extender.
- **No Wi-Fi Signal from Extender (Wi-Fi LED Off):**
 - Ensure the Wi-Fi function is enabled. You can check this via the tpPLC App.
 - If you used the Wi-Fi Clone button, ensure the cloning process was successful (Wi-Fi LED blinking then solid).
 - Reset the extender to factory defaults and reconfigure if necessary.
- **Unable to Pair Devices:**
 - Ensure you press the Pair button on both devices within the 2-minute window.
 - If pairing fails, try resetting both devices to factory defaults and attempt pairing again.

8. Specifications

TP-Link AV600 Powerline WiFi Extender (TL-WPA4220 KIT)

Feature	Detail
Brand	TP-Link
Model Number	TL-WPA4220 KIT
Hardware Interface	Ethernet
Color	White
Compatible Devices	Compatible with all HomePlug AV & AV2 standard powerline adapters
Product Dimensions	7.21"L x 5.36"W x 3.35"H
Data Link Protocol	Ethernet
Data Transfer Rate	Up to 600Mbps (Powerline), Up to 300Mbps (Wi-Fi)
Item Weight	204 Grams
Power Saving	Automatically reduces power consumption by up to 85%
Ethernet Ports	2 x Ethernet ports on Extender

9. Warranty and Support

The TP-Link AV600 Powerline WiFi Extender (TL-WPA4220 KIT) comes with a **2-year warranty**. For technical support, warranty claims, or further assistance, please contact TP-Link customer service:

- Visit the official TP-Link website for support resources, FAQs, and contact information.
- Refer to the Quick Installation Guide included in your package for specific regional support details.

