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## TP-Link TL-PA2010KIT

# TP-Link AV200 Nano Powerline Adapter Starter Kit User Manual

Model: TL-PA2010KIT

## 1. INTRODUCTION

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The TP-Link AV200 Nano Powerline Adapter Starter Kit (TL-PA2010KIT) provides a simple solution to extend your home network using your existing electrical wiring. This kit includes two powerline adapters that transform your electrical outlets into network connections, allowing you to connect devices such as computers, smart TVs, and gaming consoles to the internet without running new Ethernet cables. These adapters are compliant with the HomePlug AV standard, offering data transfer rates of up to 200Mbps, suitable for HD video streaming and online gaming. Their compact design ensures they blend discreetly into any home environment.

## 2. PACKAGE CONTENTS

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Verify that your package contains the following items:

- 2 x TL-PA2010 Powerline Ethernet Adapters
- Ethernet Cable (RJ45)
- Resource CD
- Quick Installation Guide



Image: Contents of the TP-Link AV200 Nano Powerline Adapter Starter Kit, showing two adapters and an Ethernet cable.

### 3. PRODUCT OVERVIEW

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Each TL-PA2010 adapter features a compact design with essential indicators and ports for easy operation.

#### 3.1 Physical Appearance



Image: Front view of a single TL-PA2010 adapter, highlighting the LED indicators and the 'pair' button.

### 3.2 LED Indicators

- **Power LED (Green):** Indicates the powerline adapter is powered on.
- **Powerline LED (Green):** Indicates a powerline connection is established. Blinks when data is being transmitted.
- **Ethernet LED (Green):** Indicates an Ethernet connection is established. Blinks when data is being transmitted.

### 3.3 Buttons and Ports

- **Pair Button:** Used to establish a secure powerline network connection.
- **Ethernet Port (RJ45):** Connects the adapter to network devices such as computers, routers, or gaming consoles using an Ethernet cable.

## 4. SETUP

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Setting up your TP-Link AV200 Nano Powerline Adapter Starter Kit is a simple plug-and-play process. No software configuration is typically required for basic operation.

### 4.1 Basic Installation

1. **Plug in Adapter 1:** Plug one TL-PA2010 adapter into a wall outlet near your router.
2. **Connect to Router:** Connect Adapter 1 to an available LAN port on your router using the provided Ethernet cable.
3. **Plug in Adapter 2:** Plug the second TL-PA2010 adapter into a wall outlet in the room where you need internet access.

4. **Connect to Device:** Connect Adapter 2 to your network device (e.g., computer, smart TV, game console) using another Ethernet cable.

Once both adapters are plugged in and connected, the Powerline LED and Ethernet LED on both adapters should illuminate, indicating a successful connection. If the Powerline LED is off, refer to the Troubleshooting section.



Image: Setup diagram illustrating how to connect the powerline adapters to a router and an end device.

## 4.2 Securing Your Powerline Network (Pairing)

For enhanced security, you can pair your powerline adapters to create a private network. This is recommended if you have multiple powerline devices or if you are concerned about network security.

1. Ensure both adapters are plugged into wall outlets and powered on.
2. Press the **Pair** button on one adapter for 1 second. The Power LED will start blinking.
3. Within two minutes, press the **Pair** button on the second adapter for 1 second. The Power LED on this adapter will also start blinking.
4. When the Powerline LED on both adapters turns solid, the pairing process is complete, and your powerline network is secured.

**Note:** For optimal performance, plug powerline adapters directly into wall outlets. Avoid power strips, surge protectors, or extension cords, as these can interfere with powerline communication.

## 5. OPERATING THE POWERLINE ADAPTERS

Once installed, your powerline adapters operate automatically, extending your network connection. They function as a transparent bridge, allowing any Ethernet-enabled device to connect to your network via the electrical wiring.

## 5.1 Connecting Additional Devices

You can add more powerline adapters (TL-PA2010 or compatible HomePlug AV adapters) to your existing powerline network. Simply plug the new adapter into a wall outlet and pair it with an existing adapter as described in Section 4.2.

## 5.2 Network Performance

The actual data transfer rate can vary based on several factors, including:

- Distance between adapters
- Quality of electrical wiring
- Electrical noise from other appliances
- Network traffic
- Building materials and construction

While the theoretical maximum speed is 200Mbps, real-world performance will be lower. However, it should be sufficient for typical internet activities like browsing, streaming, and online gaming.

## 6. MAINTENANCE

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The TP-Link AV200 Nano Powerline Adapters are designed for low maintenance. Follow these guidelines for optimal performance and longevity:

- **Direct Wall Outlet Connection:** Always plug the adapters directly into a wall outlet. Avoid power strips, surge protectors, or extension cords, as they can degrade performance or block the powerline signal.
- **Cleaning:** Use a soft, dry cloth to clean the adapters. Do not use liquid or aerosol cleaners.
- **Power-Saving Mode:** The adapters feature an automatic power-saving mode that reduces power consumption by up to 75% when no data transmission occurs for a certain period. This helps conserve energy without requiring manual intervention.
- **Environmental Conditions:** Operate the adapters within their specified temperature and humidity ranges to prevent damage.

## 7. TROUBLESHOOTING

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If you encounter issues with your powerline adapters, refer to the following common problems and solutions:

### 7.1 No Powerline Connection (Powerline LED is off)

- **Check Power:** Ensure both adapters are plugged into live wall outlets and powered on.
- **Direct Connection:** Confirm that adapters are plugged directly into wall outlets, not into power strips, surge protectors, or extension cords.
- **Electrical Circuit:** Powerline adapters work best when on the same electrical circuit. If they are on different circuits, the signal might be weak or non-existent. Try moving the adapters to outlets on the same circuit.
- **Interference:** Large power-consuming appliances (e.g., washing machines, refrigerators, air conditioners) can cause interference. Try plugging the adapters into different outlets away from such devices.
- **Pairing:** If you have multiple powerline devices or if the adapters were previously used in another

network, they might need to be re-paired. Follow the pairing instructions in Section 4.2.

## 7.2 Slow Network Speed

- **Direct Connection:** Ensure adapters are plugged directly into wall outlets.
- **Electrical Noise:** Disconnect other electrical devices from nearby outlets to check for interference.
- **Distance:** The further apart the adapters are, or the more complex the electrical wiring path, the slower the speed.
- **Circuit Breakers:** Electrical circuits passing through different circuit breakers can reduce performance.
- **Cable Quality:** Ensure the Ethernet cables used are in good condition and properly connected.

## 7.3 No Internet Access on Connected Device

- **Check Router:** Verify that your router has an active internet connection.
- **Ethernet Connection:** Ensure the Ethernet cables are securely connected to both the powerline adapter and your device/router. The Ethernet LED on the adapter should be lit.
- **Adapter Status:** Check the Powerline LED on both adapters. If it's off, refer to "No Powerline Connection" above.
- **Reboot:** Try unplugging both powerline adapters and your router for a few seconds, then plug them back in.

## 8. SPECIFICATIONS

Feature	Detail
Model	TL-PA2010KIT
Standards	HomePlug AV, IEEE802.3, IEEE802.3u
Interface	1x 10/100Mbps Ethernet Port
Data Transfer Rate	Up to 200Mbps (Powerline)
Range	300 meters over electrical circuitry
Dimensions (W x D x H)	6.6 x 4.6 x 3.3 inches (approx. 28.5mm thick)
Operating System Compatibility	Windows 8/7/Vista/XP (32/64bit), Mac OS
Power Consumption	Automatic Power-Saving mode reduces consumption by up to 75%

**Note:** Theoretical maximum channel data transfer rate is derived from HomePlug AV2 specifications. Actual data transfer rate will vary from network environment including: distance, network traffic, noise on electrical wires, building material and construction, quality of electrical installation and other adverse conditions.

## 9. WARRANTY AND TECHNICAL SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official TP-Link website. TP-Link provides comprehensive support resources, including FAQs, troubleshooting guides, and contact information for customer service.

**TP-Link Official Website:** [www.tp-link.com](http://www.tp-link.com)

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