



## **AV1000 Gigabit Passthrough Powerline Adapter Kit**

**Model: PH6**

**User Guide**

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## Preface



Thank you for choosing Tenda! Please read this user guide before you start with PH6.

## Conventions

The typographical elements that may be found in this document are defined as follows.

| Item                | Presentation | Example  |
|---------------------|--------------|--|
| Cascading menus     | >            | <b>System &gt; Live Users</b>                          |
| Parameter and value | Bold         | Set <b>User Name</b> to <b>Tom</b> .                   |
| Variable            | Italic       | Format: <i>XX:XX:XX:XX:XX:XX</i>                       |
| UI control          | Bold         | On the <b>Policy</b> page, click the <b>OK</b> button. |
| Message             | “ ”          | The “Success” message appears.                         |

The symbols that may be found in this document are defined as follows.

| Symbol  | Meaning  |
|---|--|
|  <b>NOTE</b> | This format is used to highlight information of importance or special interest. Ignoring this type of note may result in ineffective configurations, loss of data or damage to device. |
|  <b>TIP</b>  | This format is used to highlight a procedure that will save time or resources.   |

## Acronyms and Abbreviations





| Acronym or Abbreviation | Full Spelling                |
|-------------------------|------------------------------|
| ISP                     | Internet Service Provider    |
| IPTV                    | Internet Protocol Television |
| PLC                     | Powerline Communication      |
| STB                     | Set Top Box                  |

## Additional Information

For more information, search this product model on our website at <http://www.tendacn.com>.

## Technical Support

If you need more help, contact us by any of the following means. We will be glad to assist you as soon as possible.

|   |  |   |                      |
|---|--|---|----------------------|
| <br><b>Hotline</b> | Global: (86) 755-27657180<br>Canada: 1-888-998-8966<br>Hong Kong: 00852-81931998 | <br><b>Email</b> | support@tenda.com.cn |
| <br><b>Website</b> | <a href="http://www.tendacn.com">http://www.tendacn.com</a>                      | <br><b>Skype</b> | tendasz              |

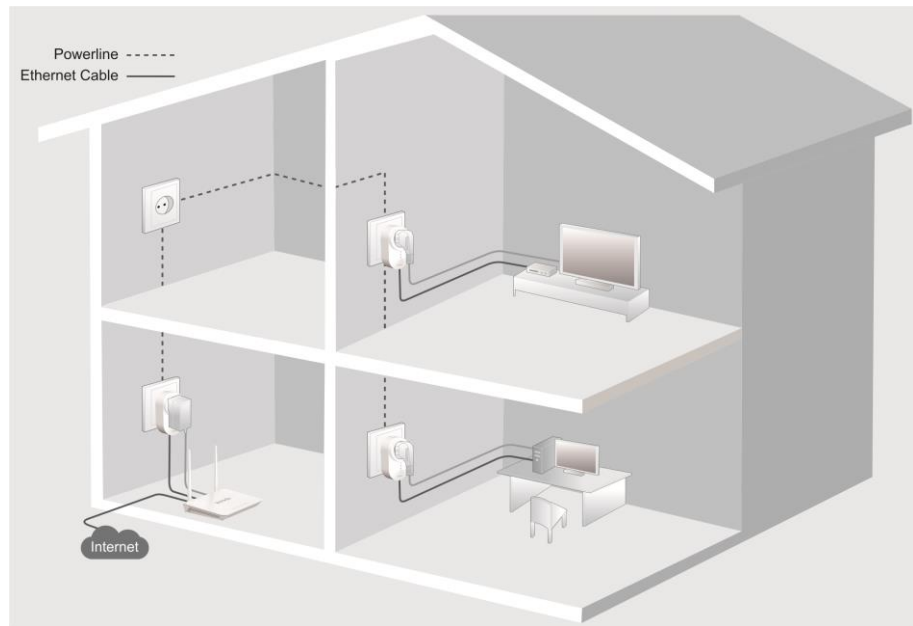
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# 1 Introduction

## 1.1 Overview

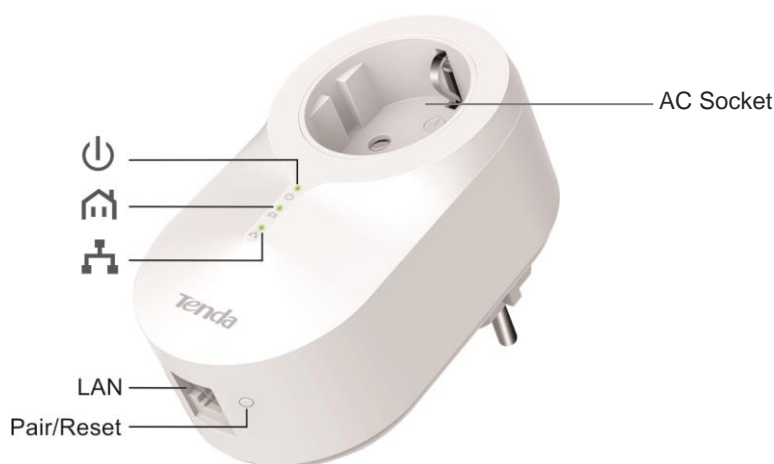
AV1000 Gigabit Passthrough Powerline Adapter Kit PH6 helps you set up a home network easily at a low cost over your home electrical wiring.






## 1.2 Features

- **Ultra-fast internet connection over the existing electrical wiring in your house**  
With the latest Homeplug av2 technology, PH6 provides a transmission rate of as high as 1000 Mbps, allowing you to watch 4K HD videos and transfer bulky data over your existing powerline.
- **Gigabit Ethernet port for fast data transfer**  
10 times faster than 100 Mbps Ethernet port, its gigabit Ethernet port provides 1000 Mbps LAN connections for wired devices, such as TV, game console, set-top box, PC, NAS, and printer.
- **Plug and play**  
Delivered in a paired condition, it works properly as soon as it is cabled and powered on.
- **Integrated power socket, no power socket goes to waste**  
Designed with a power socket that allows a current of as high as 16 A current, PH6 can supply power to TV, game console or desktop computer. The built-in noise isolation filter reduces interference from the electrical appliance plugged to the power socket of PH6.
- **Power saving mode for 85% less energy consumption**  
PH6 enters power saving mode when no device is connected to reduce energy consumption by over 85% (subject to the operating environment).


## 1.3 LED Indicators, Port and Button



### LED Indicator

| LED   | Color | Status        | Description   |
|---|-------|---------------|---|
|    | /     | Off           | The device is not connected to a power supply.  |
|   | Green | Solid on      | The device is powered on.   |
|   | Green | Slow Blinking | The device is in power saving mode.   |
|  | /     | Off           | The device is not paired with another powerline device, or is powered off.                                |
|   | Green | Solid on      | The device is connected to a powerline network.   |
|   | Green | Fast Blinking | The device is pairing with a powerline devices.   |
|   | Red   | Solid on      | The network connection is poor. Try changing another wall receptacle until the LED indicator turns green. |
|  | /     | Off           | No device is connected to the Ethernet port.  |
|   | Green | Solid on      | An Ethernet cable is connected properly.  |

### Port & Button

| Port/Button | Description   |
|-------------|---|
| LAN         | Used to connect to a router, computer, set-top box of TV, and so on.  |
| Pair/Reset  | Press it to start pairing.  |
|             | Hold it down for about 6 seconds until the  LED turns off and then solid on again to restore the adapter factory settings. |

**AC Socket:** The AC socket allows as high as 16 A current and can supply power to TV, game console or desktop computer. No power socket goes to waste.

# 2 Hardware Installation

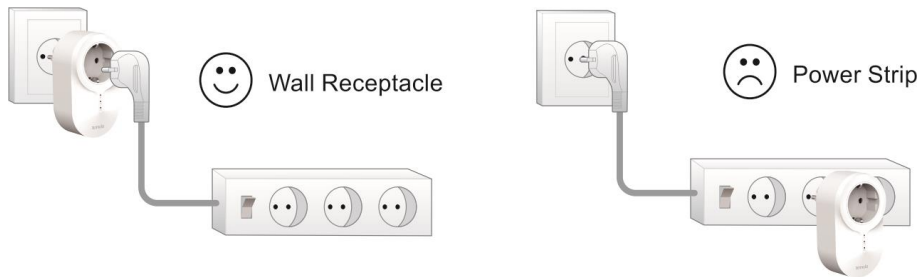
## 2.1 Installation Instruction

To ensure optimum performance of the powerline adapters PH6 and significantly improve the transmission capacity of the network, comply with the following connection rules:

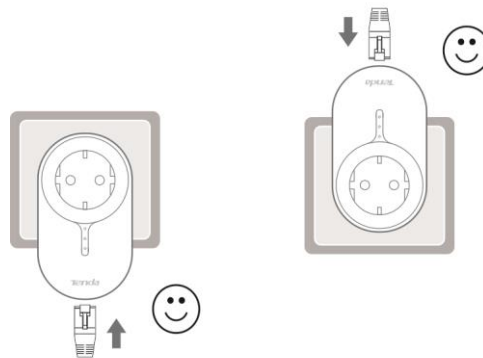
Operating Temperature: 0 °C - 40°C

Operating Humidity: (10~90) % RH, non-condensing

- Plug the powerline adapters PH6 directly into wall receptacles.



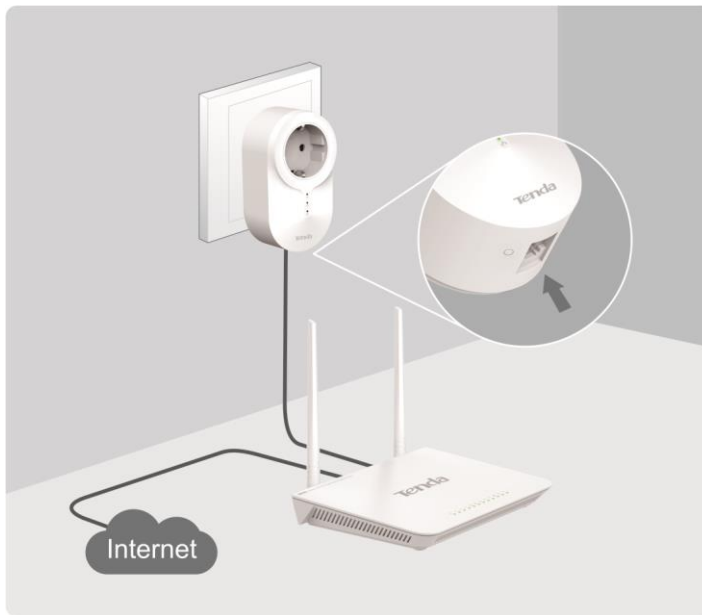
- Ensure that P6 are vertical to the ground.



- All powerline adapters you want to add to the same network should be in the same electrical circuit.



## 2.2 Connecting a Set-top Box of TV to the Internet

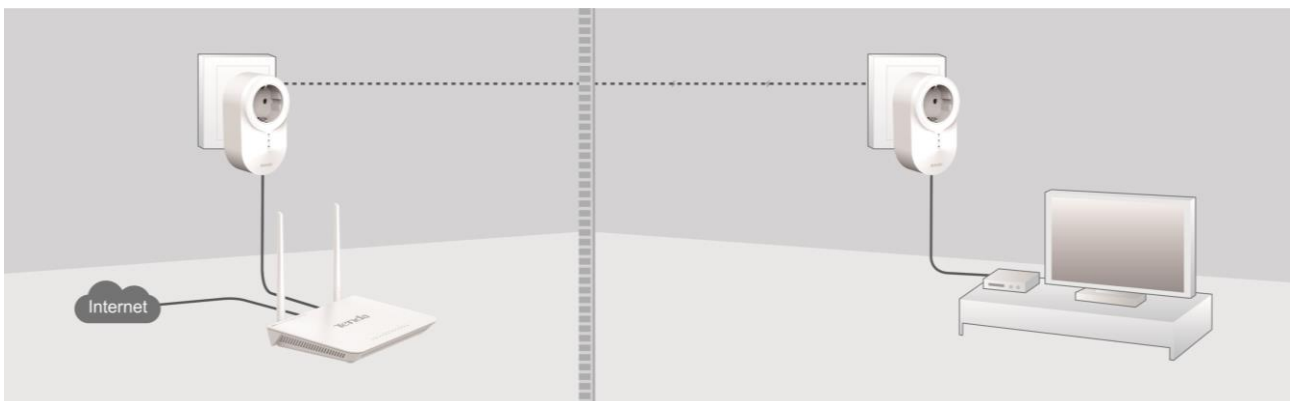


**Step 1** Connect one adapter to one of the LAN ports of a router for internet access, and plug it into a wall receptacle nearby.



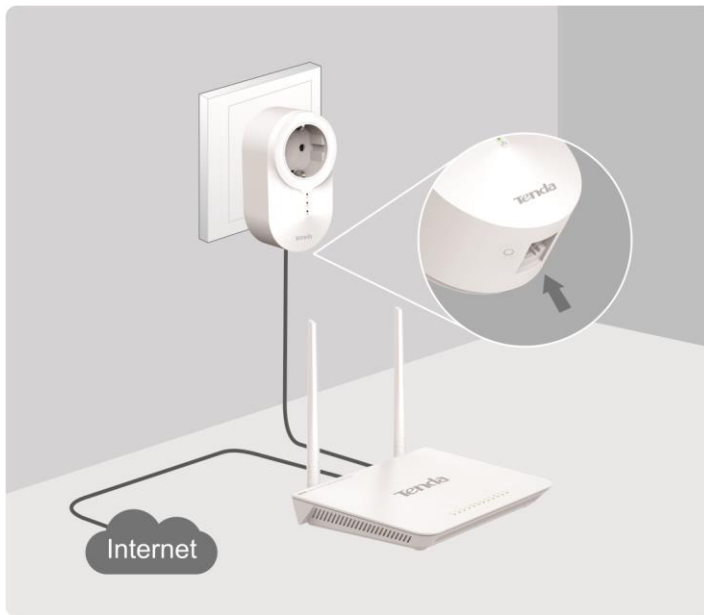
**Step 2** Connect the other adapter to a set-top box of a TV, and plug it to a wall receptacle nearby.

Wait until the 🏠 LEDs of the two adapters turn solid on. Then the STB is connected to the internet.



--End

## 2.3 Connecting a Computer to the Internet

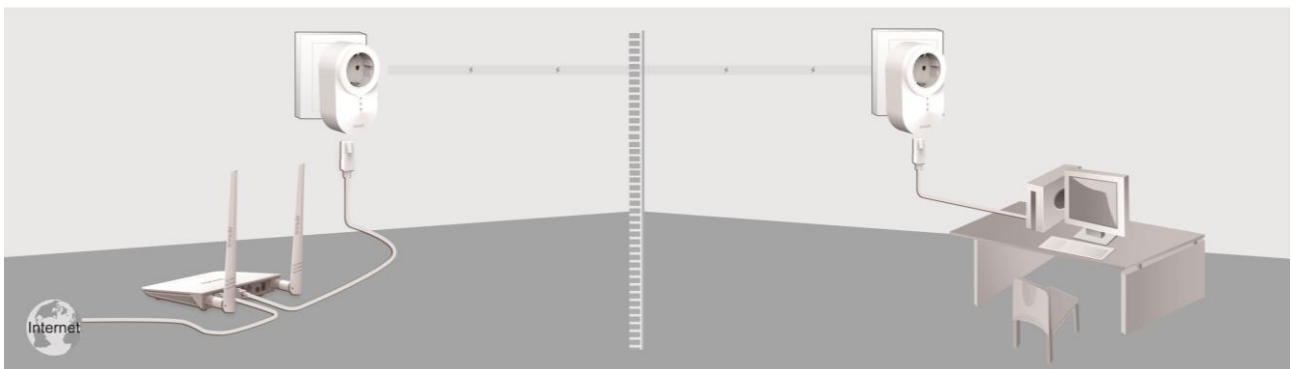


**Step 1** Connect one adapter to one of the LAN ports of the router for internet access, and plug it to a wall receptacle nearby.



**Step 2** Connect the other adapter to a computer, and plug it to a wall receptacle nearby.

Wait until the 🏠 LEDs of the two adapters turn solid on. Then the computer is connected to the internet.



--End



If the  LEDs do not turn solid on after **step 2**, refer to [3 Pair/Reset Button](#).




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# 3 Pair/Reset Button

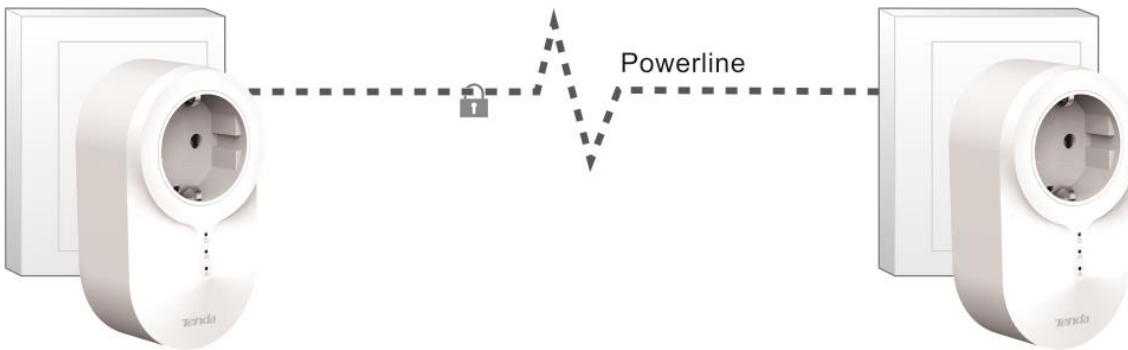
Powerline adapters in PH6 kit can automatically set up a powerline network with other HomePlug AV compliant powerline adapters under the same electrical circuit. If you only want specified powerline adapters to set up a secure powerline network, or set up several different powerline networks under the same electrical circuit, you can use the **Pair/Reset** button.

## 3.1 Setting up a Secure Powerline Network.

You can add several powerline adapters to one powerline network using the **Pair/Reset** button, but allow only two powerline adapters to pair with each other at a time.




- Step 1** Press the **Pair/Reset** button on one powerline adapter, and the  LED starts blinking.
- Step 2** Within two minutes after step 1, press the **Pair/Reset** button on the other powerline adapter, and the  LED starts blinking.
- Step 3** Wait until the  LEDs on both powerline adapters turn solid on.

It indicates that the two powerline adapters have set up a secure powerline network.



--End

## 3.2 Adding More Powerline Adapters



- Step 1** Press the **Pair/Reset** button on the new added powerline adapter, and the  LED starts blinking.
- Step 2** Within two minutes after step 1, press the **Pair/Reset** button on one powerline adapter which has been added to the powerline network, and the  LED starts blinking.
- Step 3** Wait until the  LEDs on both powerline adapters turn solid on.

It indicates that the two powerline adapters have set up a secure powerline network.



### 3.3 Reset

If you want to reset a powerline adapter, or let it exit from a secure powerline network, perform the following procedure:

- Step 1** Plug the powerline adapter, and wait until the power LED  lights up.
- Step 2** Hold the Pair/Reset button down, and wait until the power LED  turns off and then turns solid on again.



--End

# Appendix

## FAQ


**Q1: I cannot access the internet after finishing the installation. What should I do?**

**A1: Try the following methods:**

- Verify that your router and the adapters are connected properly.
- Verify that you can access the internet normally by connecting your computer directly to the router or modem.
- Verify that your computer has been set to obtain an IP address automatically.
- Verify that the PLC LEDs  on the adapters are solid green. If they are not, reset all adapters and then observe the PLC LEDs  again.
- Verify that all powerline adapters are in the same electrical circuit.


**Q2: I cannot access the internet after finishing the operations specified in Secure Your Powerline Network, what should I do?**

**A2: Try the following methods:**

- Verify that you can access the internet before using the Pair/Reset button to secure your powerline network.
- Verify that the PLC LEDs  on the adapters are solid green. If they are not, reset all adapters and then use the Pair/Reset button to pair the adapters again.
- Verify that all powerline adapters are on the same electrical circuit.

**Q3: An adapter failed to connect to the powerline network after I moved it to a new location, what should I do?**

**A3: Try the following methods:**

- Verify that all powerline adapters are on the same electrical circuit.
- Verify that the PLC LED  on the adapter is solid green before you move it to a new location.
- Use the Pair/Reset button to pair it with another adapter in the powerline network again.



This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

-For PLUGGABLE EQUIPMENT, the socket-outlet shall be installed near the equipment and shall be easily accessible.

**NOTE:** (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.



#### **FCC Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### **Caution!**

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized

modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.



This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.