TP-LINK®
The Reliable Choice

Quick Installation Guide

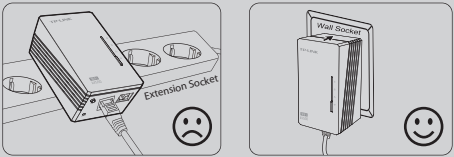300Mbps AV500/AV200 WiFi Powerline Extender

MODEL NO. **TL-WPA4220/TL-WPA2220**

Package Contents

Note This Guide, shared by TL-WPA4220 and TL-WPA2220, uses TL-WPA4220 as an example.
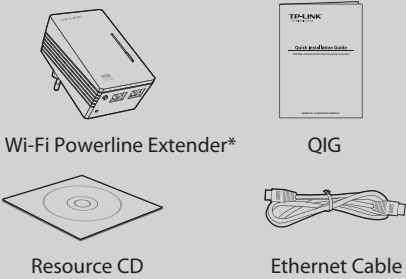
Wi-Fi Powerline Extender*   QIG
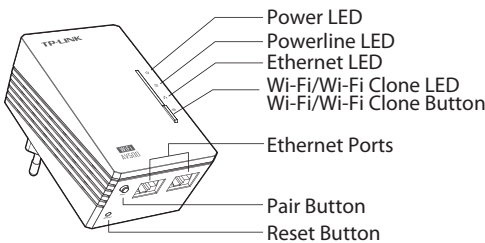
Resource CD   Ethernet Cable

* The provided power plug may differ from the picture due to different regional power specifications.

Warning Before Installation

Extension Socket ☹

Wall Socket ☺

LED and Button Description

Power LED
Powerline LED
Ethernet LED
Wi-Fi/Wi-Fi Clone LED
Wi-Fi/Wi-Fi Clone Button

Ethernet Ports

Pair Button
Reset Button

Buttons	Description
Wi-Fi/ Wi-Fi Clone Button	Press the button to start Wi-Fi Clone. (For details, see **Unify and Extend Wi-Fi Network via Wi-Fi Clone Button**.) Press the button for **5** seconds to enable or disable the wireless function.
Pair Button	Pair button is used to secure a powerline network. (For details, see **Pair Button** on the next page.)
Reset Button	Press the Reset button for more than **5** seconds, the device will restore to its factory defaults.

| LEDs	Status	Description
Power	Solid	The device is on.
	Off	The device is off.
	Blinking	The device is pairing.
Powerline	Solid	The device is connected to a powerline network, but there is no data being transferred.
	Off	The device isn't connected to any powerline network.
	Blinking	The device is transferring data.
Ethernet	Solid	The Ethernet port is connected.
	Off	The Ethernet port isn't connected.
Wi-Fi/ Wi-Fi Clone	Off	The wireless function has been disabled.
	Blinking slowly	The extender is cloning Wi-Fi settings from another device.
	Blinking quickly	The wireless function has been enabled.

Unify and Extend Wi-Fi Network via Wi-Fi Clone Button

If you have established a Wi-Fi network with a router supporting WPS, you can unify and extend this current network using the Wi-Fi Clone button. During the Wi-Fi Clone process, the extender will automatically copy the SSID and wireless password of your router, giving you a seamless roaming wireless networking experience . See the steps below to get started.
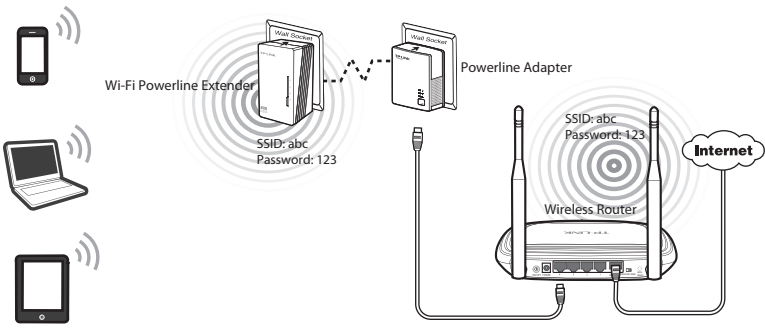
1. Plug in the Wi-Fi Powerline Extender near your wireless router.
2. Press the WPS button on the router.

Wireless Router
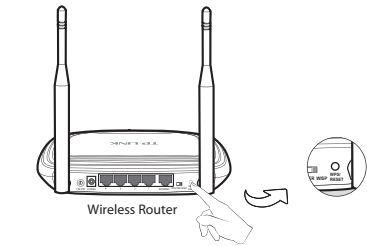
3. Press the Wi-Fi Clone button on the extender and the Wi-Fi Clone LED will begin blinking slowly. In about 20 seconds, all the LEDs will be solid momentarily and then the Wi-Fi LED will begin blinking quickly, indicating that the Wi-Fi clone process is complete.

Wall Socket
Wi-Fi Powerline Extender
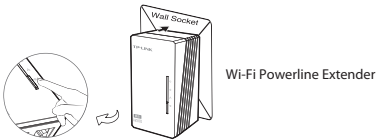
4. Connect the Powerline Adapter to the LAN port of the router and plug it into the wall socket.

Wi-Fi Powerline Extender
Wall Socket
Powerline Adapter
SSID: abc
Password: 123
SSID: abc
Password: 123
Wireless Router
Internet

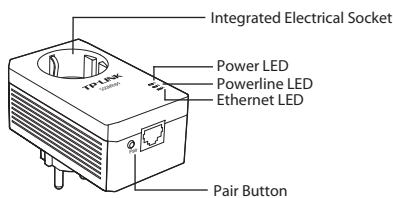5. Place the Wi-Fi Powerline Extender in the desired location.

Note TP-LINK powerline devices are Plug and Play. A powerline network is established between the powerline adapter and the extender as soon as you plug in the powerline devices.

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Quick Installation Guide

AV500 Powerline Adapter with AC Pass Through

MODEL NO. **TL-PA4010P**

Package Contents

Powerline Adapter *   QIG

Resource CD   Ethernet Cable

* The provided power plug may differ from the picture due to different regional power specifications. Here we take the EU version as an example.

Warning on Final Location
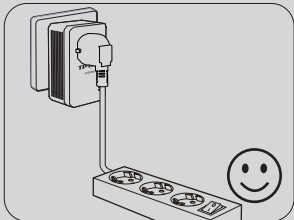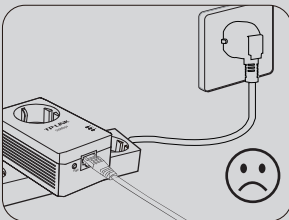
NOTE: It's strongly recommended that you plug the adapter directly into the wall socket, for some power strips have surge protector which can filter data.

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1 LED and Button Descriptions

Integrated Electrical Socket

Power LED
Powerline LED
Ethernet LED

Pair Button

Item	Status	Description
Power LED	Solid	The adapter is on.
	Blinking	The adapter is in power-saving mode or in pairing procedure.
	Off	The adapter is off.
Powerline LED	Solid	The adapter is connected to a powerline network.
	Blinking	The adapter is transferring data.
	Off	The adapter isn't connected to any powerline network or is in power-saving mode. *
Ethernet LED	Solid	The Ethernet port is connected, but there is no data being transferred.
	Blinking	The Ethernet port is transferring data.
	Off	The Ethernet port isn't connected.

* Five minutes after the device connected to the adapter is turned off, the adapter will automatically switch to power-saving mode.

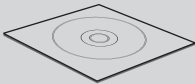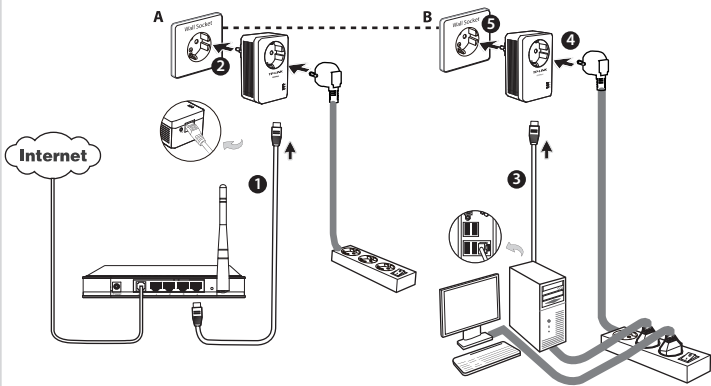| Item	Description
Pair Button	Pair button is used to secure a powerline network. To secure your network, please refer to **Appendix: Using the Pair Button**.
Integrated Electrical Socket	The integrated electrical socket allows additional devices or multiple sockets to be connected to the adapter just like to a normal wall socket. No electrical socket is lost.

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2 Network Installation

Internet

TP-LINK powerline adapters are Plug and Play. After taking the steps above, you can surf the Internet.

To add another adapter

Plug an additional adapter into the wall socket, and the connection will be established automatically within 60 seconds.

NOTE:
1. To surf the Internet, please make sure that your network is properly connected to the Internet.
2. If the adapters fail to automatically link to each other, you can establish a private network by using the pair button. To set up a private network, please go to **Appendix Using the Pair Button** for detailed instructions.

Appendix: Using the Pair Button (Setting up a private network)

To set up a private network :

1. Press the pair button on adapter A for 1 second and the Power LED will begin flashing. If pressed more than 10 seconds, the adapter will leave the network.

2. Within 2 minutes, press the pair button on adapter B for 1 second and the Power LED will begin flashing as well.

3. In about 60 seconds you'll see the Powerline LEDs on both adapters light up, indicating the two adapters have intercommunicated with each other successfully.

* It is highly recommended to first set up the two adapters in the same room or on the same power strip and then place them in a suitable location.

To join an existing private network:
If you want to add adapter C to the existing private network, please follow the steps.

1. Press the pair button on the adapter A or B for 1 second (do not press both), and the Power LED will begin flashing.

2. Within 2 minutes press the pair button on adapter C for 1 second, the Powerline LED on the adapter C will light up in about 60 seconds.

* You can follow the steps above to add more adapters to the private network one by one.
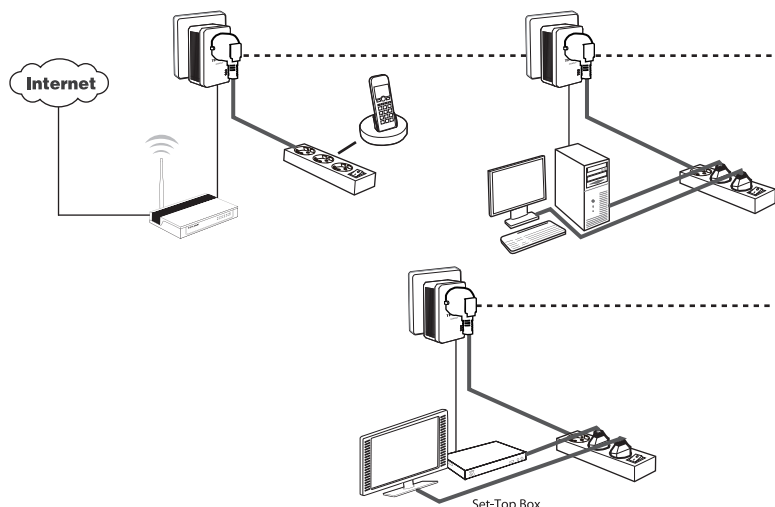
> **NOTE:**
> More advanced configuration, such as reset, firmware upgrade and QoS configuration can be accessed through the utility, so install the Powerline Utility if necessary. (Only for Windows)
> For detailed instructions, please refer to the User Guide on the Resource CD.

Internet

Set-Top Box

Troubleshooting

Q1. I have followed the above instructions, but my adapters are still not working. What can I do?

1. Make sure all the adapters are under the same electric meter.
2. If the Power LED does not light up at all, there may be a hardware problem.
3. The PLC devices might not communicate with each other if they are in different phrases of a four-wire three-phase circuit.
4. As some power strips have surge protector, please make sure the adapters are not separated by the power strips.

Q2. The adapters were working fine but no longer work now that they've been moved. How do I make them work again?

Plug the adapters into the same power strip and follow **Appendix Using the Pair Button** to pair them . If they still don't work, please check for possible interference causes:

1. Air-conditioners, washing machines, and other similar household appliances are working too close to the adapters.
2. Air switch may lead to failed communication among PLC devices; check whether there are air switches hindering communication.

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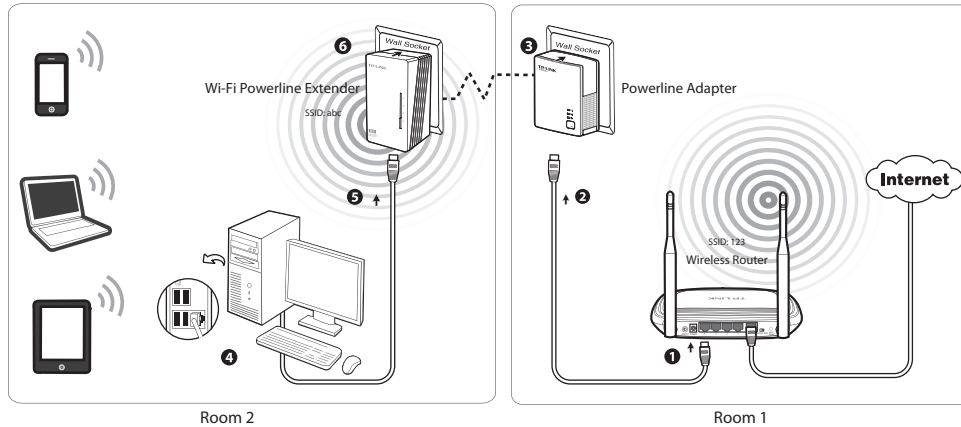
Build a New Wi-Fi Network

If your router does not support WPS function, or you just want to use a separate wireless network, follow the steps below. Before proceeding, please write down the SSID and Wireless Password of your Wi-Fi Powerline Extender labeled on the bottom of the product.

TP-LINK®   TL-WPA4220
AV500 WiFi Powerline Extender
Power: 100-240V~50/60Hz 0.15A
Default Wireless Access:
http://tplinkpiclogin.net
Username/Password:
admin/admin
WLAN MAC: 78CD8E81A715
Powerline MAC: 78CD8E81A716
Password: ABCD-ABCD-ABCD-ABCD
Wireless Password: 01234567
S/N: XXXXXXXXXXXX

SSID*: TP-LINK_____

Wireless Password:_____

*The default SSID is TP-LINK_××××××.
(×××××× indicates the last six unique characters of WLAN MAC address.)

Wi-Fi Powerline Extender
SSID:abc

Powerline Adapter

Internet

SSID: 123
Wireless Router

Room 2   Room 1

TP-LINK powerline devices are Plug and Play. After going through the steps above, wireless clients can use the default SSID and wireless password to join the wireless network of the Wi-Fi Powerline Extender as well as access the Internet.

Note If you want to change the SSID and wireless password, please refer to the User Guide included on the Resource CD.

Pair Button

**You can use the Pair button on only two devices at a time.**

To create a powerline network using the Pair button, follow the steps below.

1. Press and hold the Pair button of A (TL-WPA4220) for one second.
2. Within two minutes, press and hold the Pair button of B (another TL-WPA4220 or another powerline adapter like TL-PA4010) for one second. The connection will then be established.
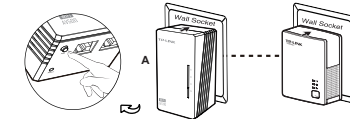
To join an existing powerline network, follow the steps below.

1. Press and hold the Pair button of C (another powerline device) for one second.
2. Within two minutes, press and hold the Pair button of A or B for one second. The connection will then be established.
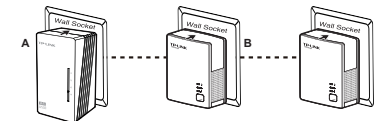
To leave an existing powerline network, press and hold the pair button on the extender for at least ten seconds.

Note For more information about the Pair button, please refer to the User Guide included on the Resource CD.

Troubleshooting

The Powerline LED does not light up.

Check the following:

1. Double-click Powerline Scan.exe included on the Resource CD and click the "Rescan" button.The Management Utility will automatically detect all other Powerline devices on your powerline network.
2. Try to plug another powerline Ethernet adapter into a nearby power outlet and check whether the Powerline LED lights up or not.
3. Make sure that the device is plugged into a wall socket instead of a power strip.
4. Follow the method in *Pair Button* to establish the connection again.
5. Reset the device to its factory default values.

Contact your local dealer for technical support if the Powerline LED still fails to light up.

Technical Support

- For more troubleshooting help, go to: **http://www.tp-link.com/en/support/faq**
- To download the latest Firmware, Driver, Utility and User Guide, go to: **http://www.tp-link.com/en/support/download**
- For all other technical support, please contact us by using the following details:

Global
Tel: +86 755 2650 4400
E-mail: support@tp-link.com
Service time: 24hrs, 7 days a week

UK
Tel: +44 (0) 845 147 0017
E-mail: support.uk@tp-link.com
Service time: 24hrs, 7 days a week

Turkey
Tel: 0850 7244 488 (Turkish Service)
E-mail: support.tr@tp-link.com
Service time: 09:00 to 21:00
7 days a week

Ukraine
Tel: 0800 505 508
E-mail: support.ua@tp-link.com
Service time: Monday to Friday
10:00 to 22:00

Brazil
Toll Free: 0800 608 9799
(Portuguese Service)
E-mail: suporte.br@tp-link.com
Service time: Monday to Friday,
09:00 to 20:00; Saturday, 09:00 to
15:00

Indonesia
Tel: (+62) 021 6386 1936
E-mail: support.id@tp-link.com
Service time: Monday to Friday
09:00 to 18:00 *Except public
holidays

Australia/New Zealand
Tel: AU 1300 87 5465
    NZ 0800 87 5465
E-mail: support.au@tp-link.com
(Australia)
support.nz@tp-link.com (New
Zealand)
Service time: 24hrs, 7 days a week

Germany/Austria
Tel: +49 1805 875 465 (German
Service)
+49 1805 TPLINK
+43 820 820 360
E-mail: support.de@tp-link.com
Fee: 0.14 EUR/min from the German
fixed phone network and up to 0.42
EUR/min from mobile phone
Service time: Monday to Friday,
09:00 to 12:30 and 13:30 to 17:30.
GMT+1 or GMT+2 (Daylight Saving
Time in Germany)
*Except bank holidays in Hesse

Singapore
Tel: +65 6284 0493
E-mail: support.sg@tp-link.com
Service time: 24hrs, 7 days a week

USA/Canada
Toll Free: +1 866 225 8139
E-mail: support.usa@tp-link.com
Service time: 24hrs, 7 days a week

Italy
Tel: +39 023 051 9020
E-mail: support.it@tp-link.com
Service time: Monday to Friday
09:00 to 13:00; 14:00 to 18:00

Malaysia
Tel: 1300 88 875 465
Email: support.my@tp-link.com
Service time: 24hrs, 7 days a week

Poland
Tel: +48 (0) 801 080 618 / +48 223
606 363 (if calls from mobile phone)
E-mail: support.pl@tp-link.com
Service time: Monday to Friday,
09:00 to 17:00. GMT+1 or GMT+2
(Daylight Saving Time)

France
Tel: +33 (0) 820 800 860 (French
service)
Email: support.fr@tp-link.com
Fee: 0.118 EUR/min from France
Service time: Monday to Friday,
09:00 to 18:00 *Except French Bank
holidays

Switzerland
Tel: +41 (0) 848 800 998 (German
Service)
E-mail: support.ch@tp-link.com
Fee: 4-8 Rp/min, depending on rate
of different time
Service time: Monday to Friday,
09:00 to 12:30 and 13:30 to 17:30.
GMT+1 or GMT+2 (Daylight Saving
Time)

Russian Federation
Tel: 8 (499) 754 5560
8 (800) 250 5560 (toll-free call from
any RF region)
E-mail: support.ru@tp-link.com
Service time: From 10:00 to 18:00
(Moscow time) *Except weekends
and holidays in Russian Federation