

# Quick Start

## Powerline 500

Model XWNB5221



**NETGEAR®**

# Package Contents

In some regions, a resource CD is included with your product.



# Getting Started

Powerline networking solutions give you an alternative to Ethernet-only or wireless networks by extending your signal using the electrical wiring. Plug 2 or more compatible Powerline 500 devices into electrical outlets to create or extend your wired home network. In addition to Powerline 500 devices, you can add Homeplug AV-certified adapters, for a total of up to 16 devices. For a complete list of Homeplug AV-certified devices, visit [www.homeplug.org/certified\\_products](http://www.homeplug.org/certified_products).

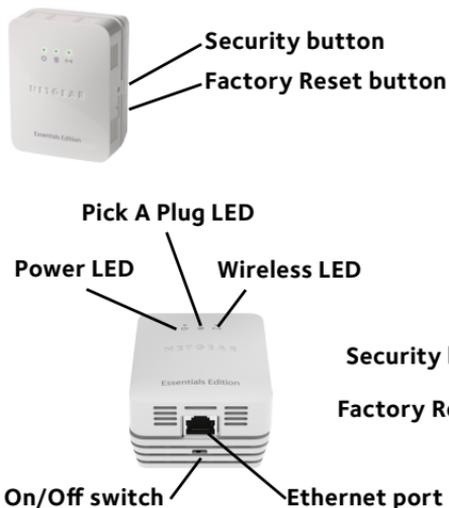
You can use the Pick A Plug feature to choose the best combination of outlets.

You can use the **Security** button on each Powerline device to secure the links between the Powerline devices.

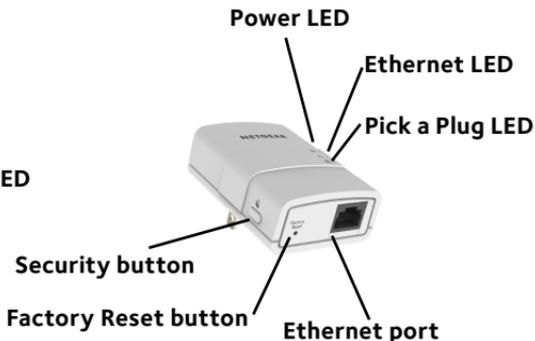
## Meet Your Adapters

Before you install your adapters, familiarize yourself with the LEDs, buttons, and port.

**Powerline 500 WiFi Access Point  
(XWN5021)**



**Powerline 500 Adapter  
(XAV5221)**



## Power LED



**Solid green.** The electrical power is on.

**Blinking amber.** The adapter is in power saving mode.

**Blinking green.** The adapter is in the process of setting up security.

**Off.** The electrical power is off.

Wireless access points can take up to 30 seconds to power on.

## Ethernet LED



**Solid.** The Ethernet port is linked.

**Off.** The Ethernet port is not linked.

## Pick A Plug LED



The Pick A Plug feature lets you pick the electrical outlet with the strongest link rate, indicated by the color displayed by the LED:

**Solid.** The adapter is connected to a Powerline network.

- **Green.** Link rate > 80 Mbps (best)
- **Amber.** Link rate > 50 and < 80 Mbps (better)
- **Red.** Link rate < 50 Mbps (good)

**Off.** The adapter did not find any other compatible Powerline devices using the same encryption key.

Wireless LED



**Solid.** The Powerline wireless access point is securely paired with the wireless network client.

**Blinking.** The Powerline wireless access point is pairing with the wireless network client.

Factory Reset button

Press the **Factory Reset** button for one second, then release it to return the Powerline adapter to its factory default settings.

Ethernet port

Connect your computers, networking equipment, and other equipment that uses an Ethernet cable to your Powerline network.

On/Off switch

Slide to turn the adapter off or on.

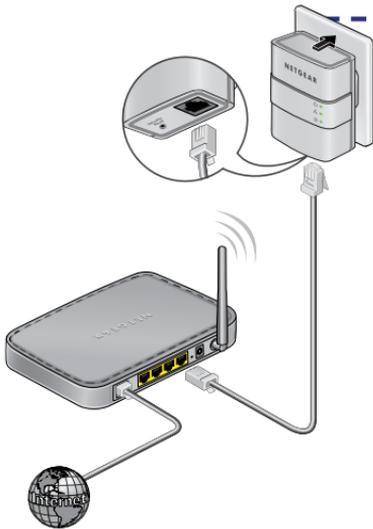
Security button

Use the **Security** button to create a secure Powerline network. On your WiFi access point, use the **Security** button both to create a secure Powerline network and to let your wireless clients join the wireless network.

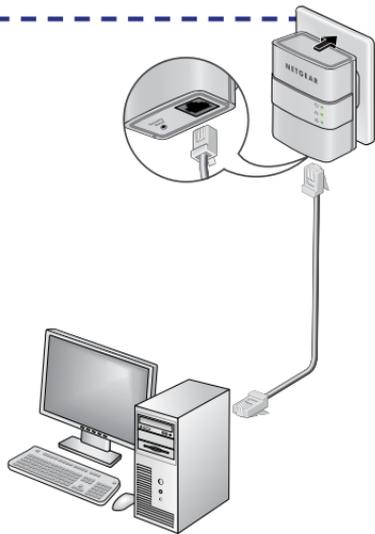
**Warning:** *Do not press the Security button on the Powerline adapter until installation is complete and the adapters are communicating with each other (indicated by the blinking Pick A Plug LED). Pressing this button too soon can temporarily disable Powerline communication. If this occurs, use the Factory Reset button to return the Powerline adapter to its factory default settings.*

# Install Your Adapters

Room 1



Room 2



## Secure Your Network

### ➤ To create a secure network:

1. Plug in your adapters, including the WiFi access point adapter.
2. Wait until the Pick A Plug LEDs are blinking.
3. Press the **Security** button on one of the adapters for two seconds, then press the **Security** button on one of the other adapters in your existing network for two seconds.

Both buttons must be pressed within two minutes.

4. If you are installing additional adapters, repeat step 3 with one of the secure adapters and one of the adapters that is not yet secured.

**Note:** The **Security** button does not work in power saving mode (see *Troubleshooting Tips* on page 13).

**Warning:** Do not press the **Security** button on the Powerline adapter until installation is complete and the adapters are communicating with each other (indicated by the blinking Pick A Plug LED). Pressing this button too soon can temporarily disable Powerline communication. If this occurs, use the **Factory Reset** button to return the Powerline adapter to its factory default settings.

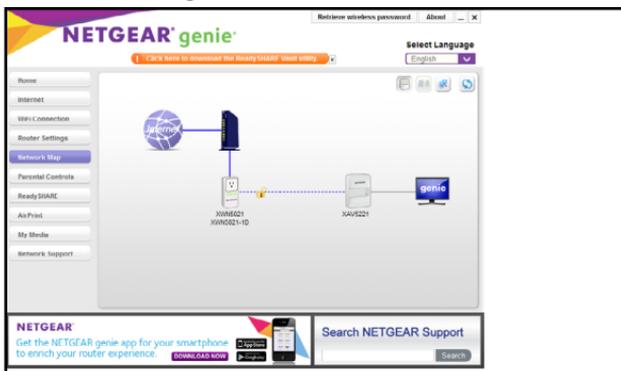
- Secure your WiFi access point. You can create a secure WiFi connection between your Powerline WiFi access point and your wireless devices in two ways: use NETGEAR genie or, for wireless devices that support it, WPS (Wi-Fi Protected Setup).

### To secure the WiFi network using NETGEAR genie:

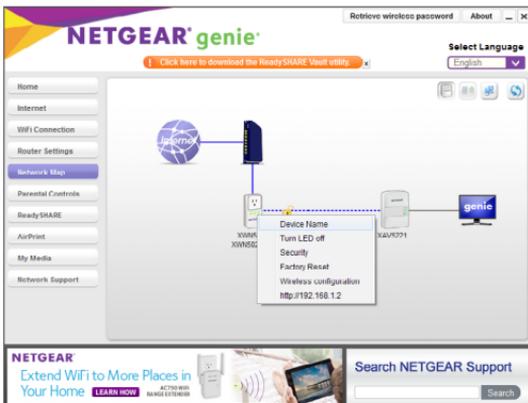
- Download and install NETGEAR genie.

To download the version of genie for your computer, visit [www.netgear.com/home/discover/apps/genie.aspx](http://www.netgear.com/home/discover/apps/genie.aspx).

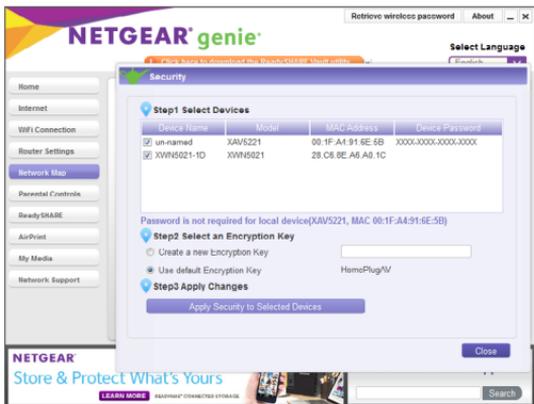
- Temporarily connect your computer to the Ethernet port on the Powerline WiFi access point.
- Run NETGEAR genie.



- d. Right-click the Powerline WiFi access point's icon.



- e. Select **Wireless Configuration**.



- f. Enter the wireless settings.

### To secure the WiFi network using WPS:

- Press the **WPS** button on the wireless client.
- Press and hold the **Security** button on the wireless access point for about two seconds and release it.

The Wireless LED blinks.

When the Wireless LED stops blinking, the wireless pairing is done, and the wireless device is securely connected to the Powerline WiFi access point.

## Add Adapters

- **To add an adapter to a Powerline network with security set:**
1. Plug in and connect the new adapters.
  2. On any of the adapters that are already a part of the secure network, press and hold the **Security** button for two seconds.
  3. On the new adapter, press and hold the **Security** button for two seconds.
- Both buttons must be pressed within two minutes.

## Troubleshooting Tips

- |                                  |  |
|----------------------------------|--|
| Power LED is off.                | Make sure that power is supplied to the electrical outlet, and that the Powerline devices are not plugged into an extension cord, power strip, or surge protector.   |
| Power LED is blinking amber.     | <p>Power saving mode occurs when the Ethernet LED is off. This can occur in the following circumstances:</p> <ul style="list-style-type: none"><li>• The Ethernet cable is unplugged.</li><li>• The device connected through the Ethernet cable is turned off.</li><li>• The adapter is idle for 10 minutes. It returns to normal mode within two seconds after the Ethernet link is up.</li></ul> |
| Pick A Plug LED is off.          | <ul style="list-style-type: none"><li>• If you set network security, make sure that all Power line devices are using the same encryption key. For more information, see the online user manual.</li><li>• Press the <b>Factory Reset</b> button on each device for one second to return the Powerline adapter to its factory default settings.</li></ul>   |
| Pick A Plug LED is amber or red. | Move the Powerline device closer to the other Powerline devices.   |

## Technical Support

Thank you for purchasing this NETGEAR product. After installing your device, locate the serial number on the label of your product and use it to register your product at <https://my.netgear.com>. You must register your product before you can use NETGEAR telephone support. NETGEAR recommends registering your product through the NETGEAR website.

For product updates and web support, visit <http://support.netgear.com>.

NETGEAR recommends that you use only the official NETGEAR support resources. You can get the user manual online at <http://downloadcenter.netgear.com> or through a link in the product's user interface.

## Trademarks

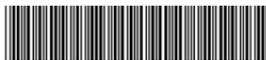
© NETGEAR, Inc., NETGEAR and the NETGEAR Logo are trademarks of NETGEAR, Inc. Any non-NETGEAR trademarks are used for reference purposes only.

## Compliance

For the current EU Declaration of Conformity, visit [http://support.netgear.com/app/answers/detail/a\\_id/11621/](http://support.netgear.com/app/answers/detail/a_id/11621/).

For regulatory compliance information, visit <http://www.netgear.com/about/regulatory/>.

See the regulatory compliance document before connecting the power supply.



201-19263-01

May 2015

**NETGEAR, Inc.**

350 East Plumeria Drive  
San Jose, CA 95134, USA