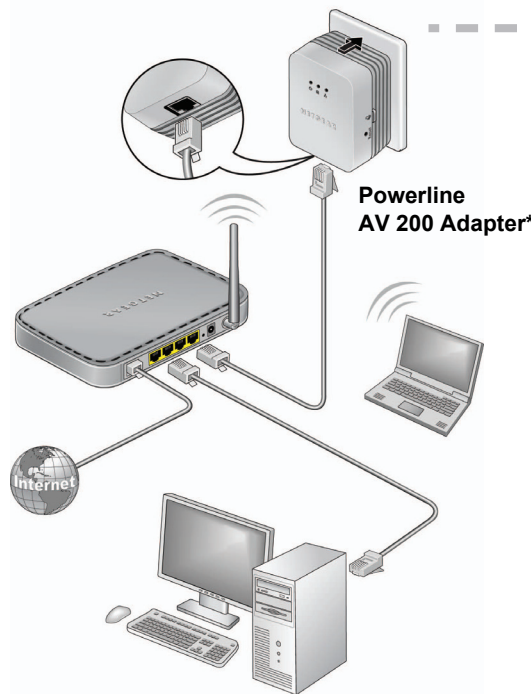
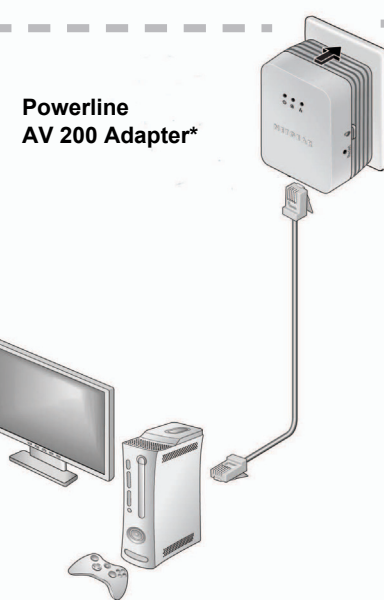


Example of an Existing Powerline Network

Room 1

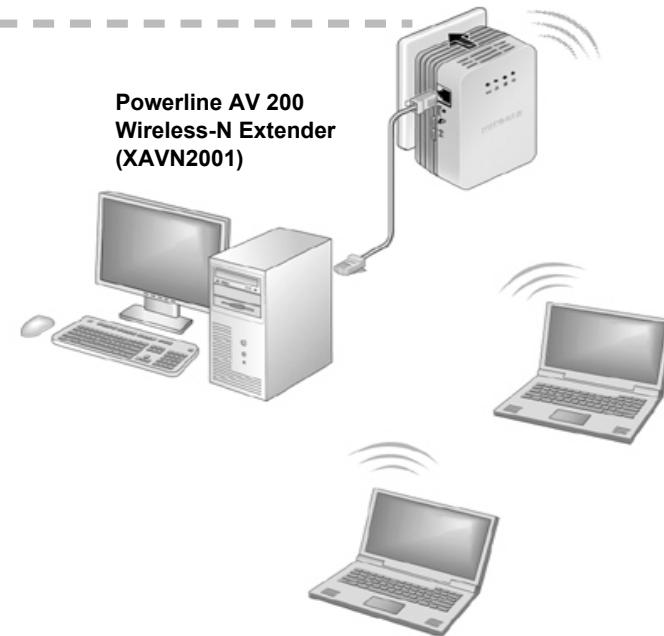


Room 2



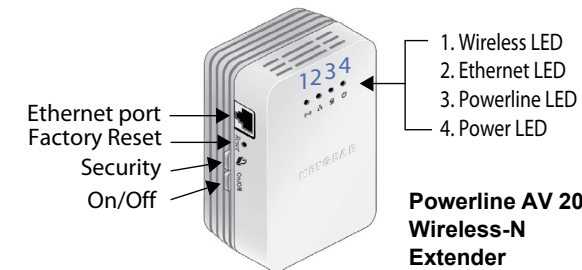
Add a Wireless Extender

Room 3



*Compatible Powerline and HomePlug AV certified devices include NETGEAR Powerline devices, the NETGEAR XAV101, XAV1004, XAV2001, XAV2501, XAVN2001, XAV5001, XAV5501, and XAV5004. For a complete list of AV certified devices, go to www.homeplug.org/certified_products.

LED Descriptions



Item	Description
Wireless LED 	Solid. The wireless radio is on. Off. The wireless radio is disabled.
Ethernet LED 	Solid. The Ethernet (LAN) port is linked. Off. There is no Ethernet connection.
Powerline LED 	Solid. The adapter is connected to a Powerline network. Off. The adapter is in power saving mode or has not found any other compatible device(s) using the same encryption key. Use the Pick-a-Plug feature to pick the electrical outlet with the strongest link rate, indicated by the color displayed by the LED: Green: Link rate > 80 Mbps (Best) Amber: Link rate > 50 and < 80 Mbps (Better) Red: Link rate < 50 Mbps (Good)
Power LED 	Solid green. The electrical power is on. Solid amber. Power saving mode. The XAVN2001 goes into power saving mode when no RJ45 cable is connected and there is no associated wireless device. Off. There is no electrical power.

For information about the buttons on your Powerline AV 200 Wireless-N Extender, see [Button Descriptions](#) in this guide.

Technical Support

Thank you for selecting NETGEAR products.

After installing your device, locate the serial number on the label of your product and use it to register your product at <http://www.NETGEAR.com/register>.

Registration is required before you can use our telephone support service. Registration via our website is strongly recommended.

Go to <http://kbserver.netgear.com> for product updates and Web support. For additional information about setting up, configuring, and using your Powerline AV 200 Wireless-N Extender, see the *XAVN2001 User Manual*.

GPL may be included in this product; to view the GPL license agreement go to <ftp://downloads.netgear.com/files/GPLnotice.pdf>. For complete DoC please visit the NETGEAR EU Declarations of Conformity website at: http://kb.netgear.com/app/answers/detail/a_id/11621/.

Safety Information:

AC input: 100-240V~, 250mA or 0.25A (Max)
Operating temperature: 0C~40C



This symbol was placed in accordance with the European Union Directive 2002/96 on the Waste Electrical and Electronic Equipment (the WEEE Directive). If disposed of within the European Union, this product should be treated and recycled in accordance with the laws of your jurisdiction implementing the WEEE Directive.

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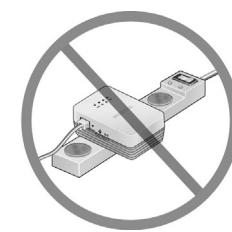
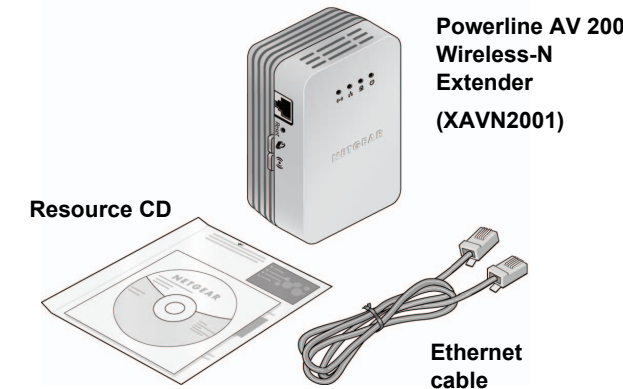
NETGEAR®

Installation Guide

Connect with Innovation™

Powerline AV 200 Wireless-N Extender XAVN2001

Package Contents



WARNING!!
DO NOT plug
Powerline devices
into a power strip.

Step 1: Write Down the Password

Each Powerline device contains a unique password printed on the product label. To avoid the need to unplug the unit in order to read the password, which would interrupt the setup, we suggest that you write down the password here before continuing the installation.

XAVN2001 Extender: _____

Step 2: Set Up Your Powerline Wireless Extender

- If your router does not have WPS, or you are not sure, use **Method A**.
- If your router does have WPS, use **Method B**.

Method A: Using the Powerline Utility CD

- Plug the Powerline AV 200 Adapter (NETGEAR Powerline device) into a wall outlet near your router, and connect it to the LAN port on your router using an Ethernet cable. See Room 1 illustration.
- Plug the Powerline AV 200 Wireless Extender (XAVN2001) into a wall outlet near your computer, and use the supplied Ethernet cable to connect it directly to the LAN port on the computer. See Room 3 illustration.

- Ensure that both the NETGEAR Powerline device and XAVN2001 are connected by checking the Powerline LEDs. If the LEDs are green or amber, the devices are successfully connected. A red LED indicates a weak link rate. In this case, move the adapter to another plug with a better connection.
- Insert the *Resource CD*, and install the Powerline Utility on the computer that is connected directly to the extender (XAVN2001).
- Follow the on-screen prompts:
 - If you have a NETGEAR router, the utility automatically finds the router, retrieves the wireless settings, and then prompts you to confirm the settings.
 - If the router is *not* a NETGEAR router, or the NETGEAR router is not detected, manually enter the wireless settings.
- Unhook the Ethernet cable from the Wireless Extender (XAVN2001) and plug the extender to the area (or dead zone), where you want to extend the coverage.

Method B: Using the WPS Button

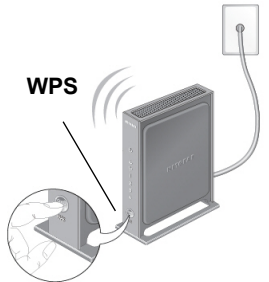
Use this method if you have a wireless router, or modem router with a WPS (Wi-Fi Protected Setup™) Push ‘N’ Connect button:

- Plug the XAVN2001 into a wall outlet close to your router to ensure that it is within the router’s wireless coverage area.
- Press the WPS button on the router.

Note: The WPS button may be labeled WPS, or may look similar to  or .

- Within two (2) minutes, and hold the XAVN2001 On/Off button for about 7+ seconds until the wireless LED starts blinking.

This activates the auto configuration on the XAVN2001. The LED stops flashing when setup is successful.
- Move the XAVN2001 to the area (or dead zone), where you want to extend the wireless coverage.



- Plug the Powerline AV 200 Adapter (NETGEAR Powerline device) into a wall outlet near your router, and use an Ethernet cable to connect it to the LAN port on the router. See Room 1 illustration.
- Ensure that both the NETGEAR Powerline device and XAVN2001 are connected by checking the Powerline LEDs. If the LEDs are green or amber, the devices are successfully connected. A red LED indicates a weak link rate of 50 Mbps or less. In this case, move the adapter to another plug with a better connection.

Wireless devices in that “dead” area can now connect to your network through the Powerline Adapter and Wireless Extender.

Step 3: Connect Wireless Clients to the Wireless Extender

Use of one these methods to connect other wireless devices (such as a laptop, game console, and so on), to your network through the wireless extender.

- If your wireless client device has a WPS button:
 - Push the WPS button on the wireless client.
 - Push the Security button on the wireless extender (about 2+ seconds), until the Wireless LED starts flashing, then release it.

When the wireless LED stops flashing, the wireless pairing is done and the wireless device is securely connected to the XAVN2001 Wireless Extender.

- If your wireless client does not have a WPS button, you need to access the user interface of your client device to manually enter the wireless settings to connect to the extender.

For detailed information, see the *XAVN2001 User Manual*. A link is located on the *Resource CD*.

For more information, see the *XAVN2001 User Manual*. A link is located on the *Resource CD*.

Troubleshooting

If your extender is configured with the same wireless network name (SSID) as your router, and you experience frequent wireless drops after the wireless extender is installed, your client device may be trying to switch connections frequently between the two access points (the router and the extender).

To resolve this issue, set up a separate SSID name for the extender so your client device will always connect to one single access point.

To do this, use the Powerline utility to manually configure a different SSID for the extender.

See *Step 3: Connect Wireless Clients to the Wireless Extender* for details.

Power Saving Mode

The XAVN2001 and NETGEAR Powerline devices go into power saving mode when no RJ45 Ethernet cable is connected, and there is no associated wireless device.

The device or devices resume normal operation when the Ethernet cable is plugged in, or it recognizes the wireless client.

Button Descriptions

Item	Description
Factory Reset	Press the Factory Reset button for 2 seconds, and then release it to return the Powerline adapter to its factory default settings.
Security button	Use the Security button to set the security: - Between your wireless client device and the XAVN2001 wireless extender. See Step 3: Connect Wireless Clients to the Wireless Extender. or - Between the Powerline devices.
On/Off button	The Wireless Extender On/Off button has two functions: - Turn the unit on and off. To turn off: Press and hold the On/Off button on the XAVN2001 Wireless Extender until the Power LED turns amber (2+ sec), and then release it. The device automatically turns off, and all LEDs turn off. To turn on: Press the On/Off button until the Power LED is green. You can also unplug the XAVN2001, and then replug it into the wall outlet. Note: The Powerline AV 200 Adapter does not have an On/Off button, however it automatically goes into low power mode when nothing is connected to the Ethernet port, or the adapter is not transmitting data. See Power Saving Mode. - Perform the auto-configuration for the wireless extender to copy the router settings. See Step 3: Connect Wireless Clients to the Wireless Extender. Choose either Method A: Using the Powerline Utility CD or Method B: Using the WPS Button.