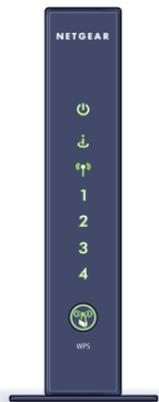




# Wireless N 300+ Powerline AV Router WNXR2000

## Installation Guide



## **Technical Support**

Thank you for selecting NETGEAR products.

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 the telephone support service. Registration at the NETGEAR website is strongly recommended.

Go to <http://support.netgear.com> for product updates and Web support.

For complete DoC please visit the NETGEAR EU Declarations of Conformity website at: [http://kb.netgear.com/app/answers/detail/a\\_id/11621/](http://kb.netgear.com/app/answers/detail/a_id/11621/)

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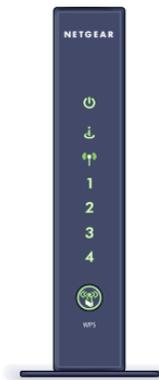
## **Statement of Conditions**

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# Package Contents



Resource CD



N300 Wireless Router



Ethernet Cable



XAVP1000 Y-Cable Adapter

# About Your WNXR2000

The WNR2000 router works with the XAVP1000 Y-cable adapter to help you create a Powerline and wireless network.

To set up your network, do the following:

- [Set Up the XAVP1000 Adapter](#)
- [Connect the WNXR2000 Powerline AV Router](#)

## Set Up the XAVP1000 Adapter

Follow these steps to connect the XAVP1000 adapter to the router:

1. Plug the network connector on the Y-cable adapter into one of the orange Ethernet ports on the router.
2. Plug the Power connector on the Y-cable adapter into the power inlet on the router.
3. Plug the XAVP1000 adapter into an electrical outlet.

Make sure that:

- You do NOT plug the adapter into a Power Strip.
- The electrical outlet is not controlled by a wall switch to avoid someone unknowingly turning off the power to the outlet.

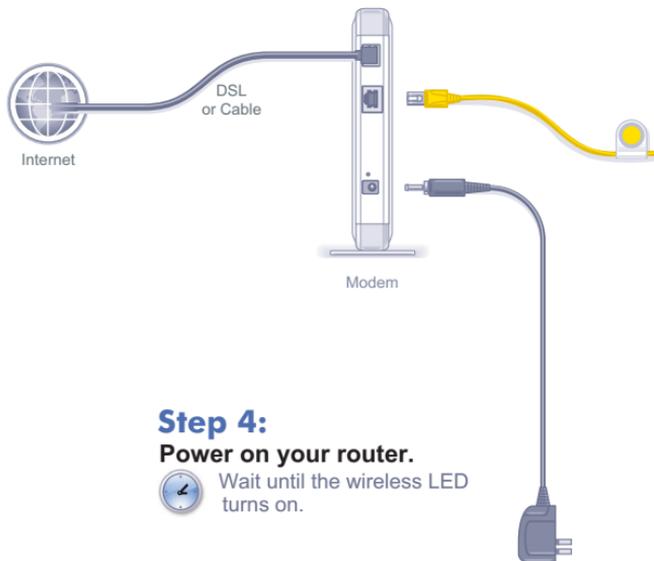
4. Power on the router using the Power On/Off button on the back of the router.
5. Check that the power lights on both the XAVP1000 adapter and on the router are lit. For more information on the status lights, see “WNXR2000 Router Status Lights” on page 15 and “XAVP1000 Adapter LEDs and Buttons” on page 17.
6. When the router indicates that the Ethernet port connected to the Y-cable adapter is linked and active (the LED for the Ethernet port  on the front of the router will be solid green), check that the Ethernet and Powerline  LEDs on the adapter are also on and blinking.

## Connect the WNXR2000 Powerline AV Router

Follow the connection instructions as shown in the drawing on the next page.

**Step 1:**  
Unplug the power  
to turn off your modem.

**Step 2:**  
Connect one end of the  
yellow cable ( ● ) to your  
modem, and connect the  
other end to your router.



**Step 4:**  
Power on your router.

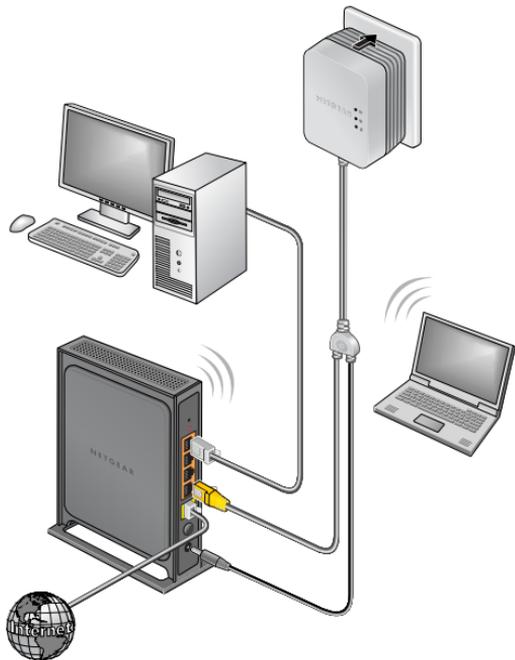


Wait until the wireless LED  
turns on.

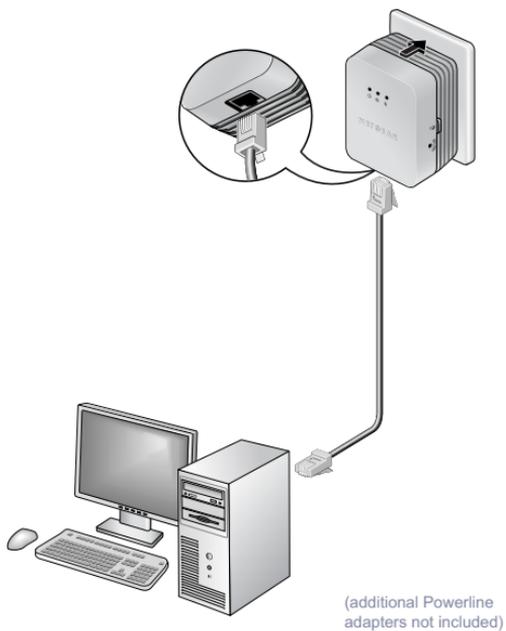


## Existing Powerline Network — Room 1 (example)

This drawing (Room 1) shows how the Y-cable Powerline adapter and WNR2000 router might fit into an existing Powerline network in your house.



## Existing Powerline Network — Room 2 (example)



# Setting Up Internet Access

1. In the address field of your browser, type **http://www.routerlogin.net** and click **Enter**.
2. Enter the router User Name **admin** and default Password **password** to open your router's main settings page.
3. When the main settings page opens, you will be asked if you want to "Check for Update." Click **Cancel**. You can always check for new firmware later after you are connected to the Internet.
4. Select the first menu item on the left: **Setup Wizard**. Make sure **Yes** is selected. Then click **Next** and follow the prompts to complete the Setup Wizard.



User name:

Password:

Remember my password



• Setup Wizard

• Add WPS Client

Setup

• Basic Settings

• Wireless Settings

Content Filtering

• Logs

• Block Sites

### Setup Wizard

The Smart Setup Wizard can detect the type of Internet connection that you have. Do you want the Smart Setup Wizard to try and detect the connection type now?

Yes.

No. I want to configure the router myself.

When the Setup Wizard has completed detecting your connection, the Basic Settings page displays showing your settings. You are now connected to the Internet.

**Note:** If your ISP requires that you enter a User Name or Password, you will be prompted to enter this information. If you do not have this information, contact your ISP.

After connecting to the Internet, you can check for firmware updates by selecting **Router Upgrade** and following the on-screen prompts.

## Setting Up the Wireless Security

You should set up a secure wireless network. Once your router security is established, your wireless laptops, gaming devices (such as Wii or Play station 3 with wireless), or other wireless equipment can safely and securely connect to the Internet.

1. From the main menu page, select **Wireless Settings**.\*

**Wireless Settings**

**Wireless Network**

Name (SSID):

Region:

Channel:

Mode:

**Security Options**

None

WEP

WPA-PSK [TKIP]

WPA2-PSK [AES]

WPA-PSK [TKIP] + WPA2-PSK [AES]

**Security Options (WPA-PSK + WPA2-PSK)**

PassPhrase:  (8-63 characters or 64 hexdigits)

\*Your router menu may display different or additional features not shown

2. First, name your wireless network. Choose a name that is easy for you to remember. You might want to write it down here: \_\_\_\_\_ (the default name is NETGEAR).
3. Select your security method. NETGEAR recommends WPA-PSK (TKIP) +WPA2-PSK (AES). Then, enter a Passphrase. In the example, we entered HomeNetwork.

You might want to write your Passphrase down here:\_\_\_\_\_.

**Note:** Both your Network Name (SSID) and Passphrase are case sensitive. Your Network name, Security method and Passphrase must be the same on all the wireless devices connected to your router.

4. Click **Apply** and close your browser.

## Connecting Wireless Devices to Your Router

Enter your wireless information here:

**Wireless Network Name (SSID)**

---

**Wireless Security Passphrase**

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If you don't remember your Passphrase, type **http://www.routerlogin.net** into your browser and log in by entering your User Name **admin** and Password (default is **password**). Then, select **Wireless Settings** to retrieve your Passphrase.

You can add wireless computers and other equipment to your wireless network:

1. Open the wireless software that manages your wireless connections on the wireless device (iPhone, laptop computer, gaming device) that you want to connect to your router.
2. The wireless software will scan for all wireless networks in your area. Look for your network—the one you named when you set up your router. Select it.
3. If you set up security, you will be prompted for a Passphrase or network key. Enter the Passphrase you selected and click **Connect**.

If your wireless device supports WPS (WiFi Protected Setup)—NETGEAR calls this method Push 'N' Connect—you might be prompted to press a WPS button on the router instead of entering a Passphrase. Then:

1. Press the WPS button on the router. It will look similar to  or  .
2. Within 2 minutes, follow the wireless software instructions on the wireless device to complete the WPS process.  
The device will then be connected to your router. Repeat this process to add other wireless devices.

# LED and Button Descriptions

## *WNXR2000 Router Status Lights*

Item	Description
Power 	<ul style="list-style-type: none"><li>• Solid Green. The power is on and the router is ready.</li><li>• Solid Amber. The router is performing the power-on self-test diagnostic.</li><li>• Off. Power is not being supplied to the router.</li></ul>
Internet 	<ul style="list-style-type: none"><li>• Solid Green. The wireless router has acquired an Internet address.</li><li>• Solid Amber. No IP address acquired.</li><li>• Off. No Ethernet cable is connected to the modem.</li></ul>
Wireless 	<ul style="list-style-type: none"><li>• Solid Blue. The wireless interface is enabled.</li><li>• Off. The wireless interface is turned off.</li></ul>

Item	Description
<p>Ethernet Ports (Ports 1 – 4)</p> 	<ul style="list-style-type: none"><li>• Solid Green. The local port is connected to a 100 Mbps device.</li><li>• Solid Amber. The local port is connected to a 10 Mbps device.</li><li>• Off. No link is detected on this port.</li></ul>
<p>Push 'N' Connect</p> 	<ul style="list-style-type: none"><li>• Solid Green. Indicates that wireless security (WEP, WPA-PSK, or WPA-PSK) is on.</li><li>• Off. No WPS connection exists.</li></ul>

## XAVP1000 Adapter LEDs and Buttons

Item	Description		
Power LED 	<ul style="list-style-type: none"> <li>• Solid green. The electrical power is on.</li> <li>• Blinking green. The adapter is restarting or setting up security.</li> <li>• Amber. Power saving mode.</li> <li>• Off. There is no electrical power.</li> </ul>		
Powerline LED  	<ul style="list-style-type: none"> <li>• Solid. The adapter is connected to a Powerline network.</li> <li>• Blinking. The adapter is sending or receiving data.</li> <li>• Off. The adapter has not found any other compatible Powerline devices using the same encryption key.</li> </ul> <p>The Pick A Plug feature lets you pick the electrical outlet with the strongest link rate, indicated by the color displayed by the LED:</p>		
	Green: Link rate > 80 Mbps (Best)	Amber: Link rate > 50 and < 80 Mbps (Better)	Red: Link rate < 50 Mbps (Good)

Item	Description
Ethernet LED 	<ul style="list-style-type: none"> <li>• Solid. The Ethernet port is linked, but there is no activity.</li> <li>• Blinking. There is traffic on the Ethernet port.</li> <li>• Off. There is no Ethernet connection.</li> </ul>
Factory Reset	Press the Factory Reset button for 1 second, then release to return the Powerline adapter to its factory default settings.
Security Button	<p>After you plug in your new AV adapter, press the security button for 2 seconds, then press the security button on one of the other AV adapters in your existing network for 2 seconds. Both buttons must be pressed within 2 minutes.</p> <p><b>Note:</b> The Security button does not work in power saving mode (see “Power LED is amber” in the “Troubleshooting Tips” table below).</p>

**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 Powerline LED). Pressing this button too soon can temporarily disable Powerline communication. If this should occur, use the Factory Reset button to return the Powerline adapter to its factory default settings.

# 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 amber	Power saving mode occurs when the Ethernet LED is off. This can occur when: <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.</li></ul> It returns to normal mode within 2 seconds once the Ethernet link is up.
Powerline LED is off	<ul style="list-style-type: none"><li>• If you have set network security, make sure that all Power line devices are using the same encryption key; see the online <i>User Manual</i> for details.</li><li>• Press the Reset button on each device for 1 second to return the Powerline adapter to its factory default settings.</li></ul>
Powerline LED is amber or red	<ul style="list-style-type: none"><li>• Move the Powerline device to a closer location.</li></ul>
Ethernet LED is not blinking	<ul style="list-style-type: none"><li>• Make sure that the Ethernet cables are working and securely plugged into the devices.</li><li>• Press the Reset button on each device for 1 second to return the Powerline adapter to its factory default settings.</li></ul>

# Technical Support

Thank you for selecting NETGEAR products.

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Go to <http://kbserver.netgear.com> for product updates and Web support. For additional information about setting up, configuring and using your WNXR2000, see the *User Manual*.

GPL may be included in this product; to view the GPL license agreement go to <ftp://downloads.netgear.com/files/GPLnotice.pdf>.

## Troubleshooting

For troubleshooting information, see the WNXR2000 User Manual. A link is located on the Resource CD.



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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