

# NETGEAR®

## N600 WiF Range Extender

Model WN2500RPv2

User Manual



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San Jose, CA 95134  
USA

### Support

Thank you for purchasing this NETGEAR product. You can visit [www.netgear.com/support](http://www.netgear.com/support) to register your product, get help, access the latest downloads and user manuals, and join our community. We recommend that you use only official NETGEAR support resources.

### Conformity

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

### Compliance

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

See the regulatory compliance document before connecting the power supply.

### Trademarks

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# Overview

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# 1

The WiFi Range Extender boosts your existing network range and speed, delivering dual-band WiFi. You can also use the extender in access point mode as a WiFi access point and create a new WiFi hotspot by using a wired Ethernet connection.

This chapter covers the following topics:

- *Meet Your Extender*
- *When to Use Your Extender*
- *How the Extender Works*

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**Note:** For more information about the topics covered in this manual, visit the support website at [support.netgear.com](http://support.netgear.com).

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**Note:** Firmware updates with new features and bug fixes are made available from time to time on [downloadcenter.netgear.com](http://downloadcenter.netgear.com). Some products can regularly check the site and download new firmware, or you can check for and download new firmware manually.

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## Meet Your Extender

Before you install your extender, familiarize yourself with its LEDs, buttons, and port.

### Front Panel LEDs and Right Panel WPS Button

Use the LEDs during installation to find the best location for the extender or to monitor the extender performance. The following figure shows the extender in upright position, with the feet attached. (For information about attaching the feet, see *Attach the Feet* on page 8.)

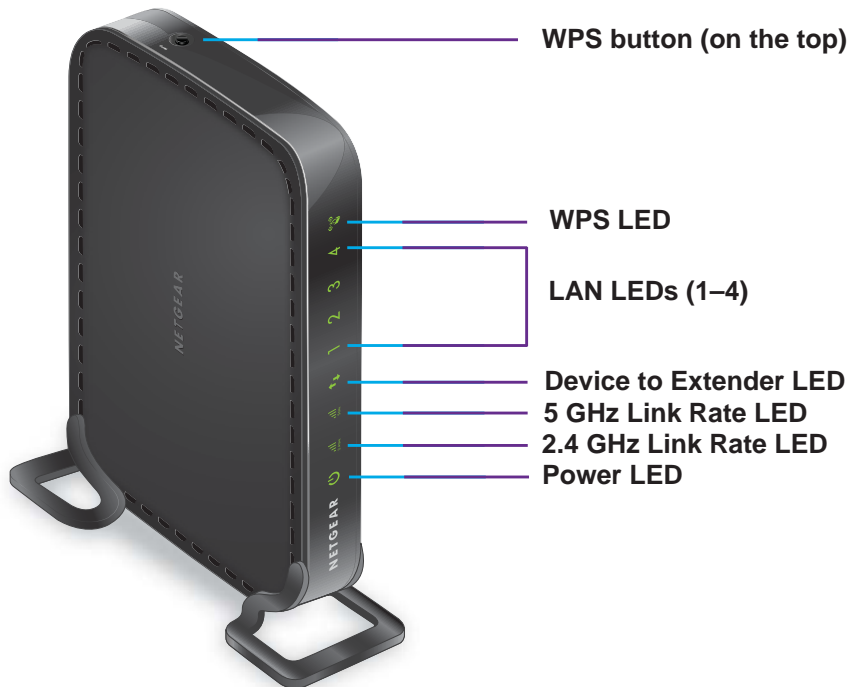


Figure 1. Front panel LEDs and right panel WPS button

The following table describes the LEDs.

Table 1. LEDs






LED	Description
Power LED 	<ul style="list-style-type: none"> <li>• <b>Solid amber.</b> The extender is booting.</li> <li>• <b>Solid green.</b> The extender is powered on.</li> <li>• <b>Blinking green.</b> The firmware is corrupt. Visit <a href="http://downloadcenter.netgear.com">downloadcenter.netgear.com</a>.</li> <li>• <b>Blinking amber.</b> The firmware is upgrading or the <b>Restore Factory Settings</b> button was pressed.</li> <li>• <b>Off.</b> The extender is powered off.</li> </ul>

Table 1. LEDs (continued)

LED	Description
2.4 GHz Link and 5 GHz Link LEDs 	Indicates a 2.4 GHz or 5 GHz extender connection to a router or access point. <ul style="list-style-type: none"> <li>• <b>Solid green.</b> Best connection.</li> <li>• <b>Solid amber.</b> Good connection.</li> <li>• <b>Solid red.</b> Poor connection.</li> <li>• <b>Off.</b> No connection.</li> </ul>
Client Link LED 	<ul style="list-style-type: none"> <li>• <b>Solid green.</b> The extender is connected to a WiFi-enabled device.</li> <li>• <b>Off.</b> The extender is not connected to a WiFi-enabled device.</li> </ul>
LAN LEDs (1–4) 	<ul style="list-style-type: none"> <li>• <b>Solid green.</b> The LAN port detects a local area network (LAN) connection.</li> <li>• <b>Off.</b> No device is detected on the LAN port.</li> </ul>
WPS LED 	<ul style="list-style-type: none"> <li>• <b>Solid green.</b> WiFi security is enabled (WPA or WPA2).</li> <li>• <b>Blinking green.</b> A WPS connection is being established.</li> <li>• <b>Off.</b> WiFi security is not enabled.</li> </ul>

## Rear Panel Ports, Buttons, and Connector

The following figure shows the ports, buttons, and connector on the rear panel of the extender. The figure shows the extender in an upright position, with the feet attached. (For information about attaching the feet, see [Attach the Feet](#) on page 8.)

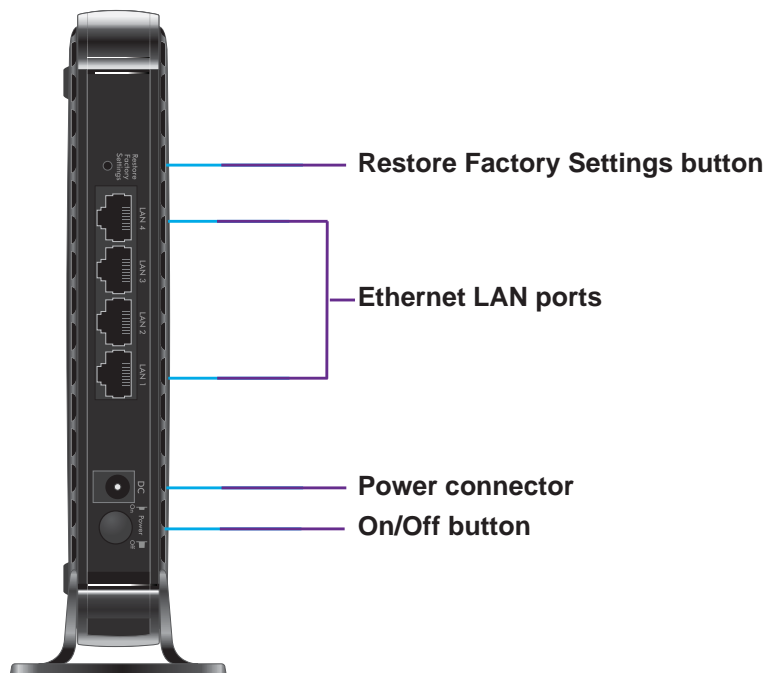


Figure 2. Rear panel

## Attach the Feet

If you prefer to place the extender in an upright (vertical) position, attach the feet that come with the extender.

Although the extender functions well in either a horizontal or a vertical position, a horizontal position might give a better performance.

➤ **To attach the feet:**

1. Hold the extender in an upright position with the left side of the extender pointing down.



2. Snap the feet onto the extender.

## When to Use Your Extender

We recommend that you connect through the extender network only when the WiFi device is in a “dead zone” where connection from the existing network is poor or nonexistent. Data traffic routed through the extender is inherently slower than traffic routed directly from the network.

## How the Extender Works

The extender works like a bridge between a WiFi router (or a WiFi access point) and a WiFi device outside the range of the WiFi router. The extender performs two main jobs:

- The extender connects to a working WiFi network.



## N600 WiF Range Extender

When the extender connects over WiFi to an existing network, it functions as a network client, similar to how a WiFi device connects to a network.

- The extender acts as an access point for WiFi devices.

The extender broadcasts its own WiFi network that WiFi devices can join. In its role as an access point, the extender performs tasks that WiFi routers do, such as broadcasting its network name (SSID).

The extender must do each of these jobs so that both ends of the bridge are in place.

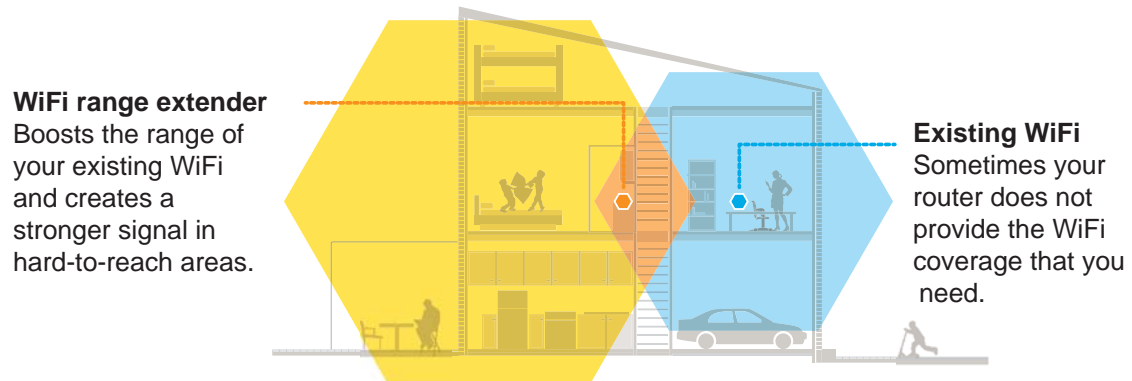


Figure 3. Range extender in a home

## 2. Get Started

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# 2

This chapter covers the following topics:

- *Use the Extender in Extender Mode*
- *Use the Extender in Access Point Mode*
- *Access Extender Settings*
- *Run Smart Setup Installation*

## Use the Extender in Extender Mode

The extender repeats the signals from an existing WiFi router or access point.


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**Note:** You can also use the extender as a WiFi access point and create a new WiFi hotspot by using a wired Ethernet connection. See [Use the Extender in Access Point Mode](#) on page 16.

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## Place the Extender and Apply Power

➤ **To place the extender and apply power:**

1. Place your extender in the same room as your WiFi router.  
Proximity to the WiFi router is required only during the initial setup process.
2. Connect the power adapter and plug the extender into an electrical outlet.
3. Wait for the Power LED  to light green.  
If the Power LED does not light, press the **Power On/Off** button on the extender.

## Connect to an Existing WiFi Network

To extend the range of your WiFi network, you must connect the extender to your existing WiFi network. You can do this in one of two ways:

- **Connect with WPS.** For more information, see [Connect With WPS](#) on page 11.
- **Connect with web browser setup.** For more information, see [Connect With the NETGEAR Installation Assistant](#) on page 13.

### Connect With WPS


Wi-Fi Protected Setup (WPS) lets you join a secure WiFi network without typing the network name and password.

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**Note:** WPS does not support WEP network security. If you are using WEP security, follow the instructions in [Connect With the NETGEAR Installation Assistant](#) on page 13.

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➤ **To use WPS to connect the extender to your WiFi router:**

1. Press the **WPS** button on the side panel of the extender.  
The WPS LED  blinks.

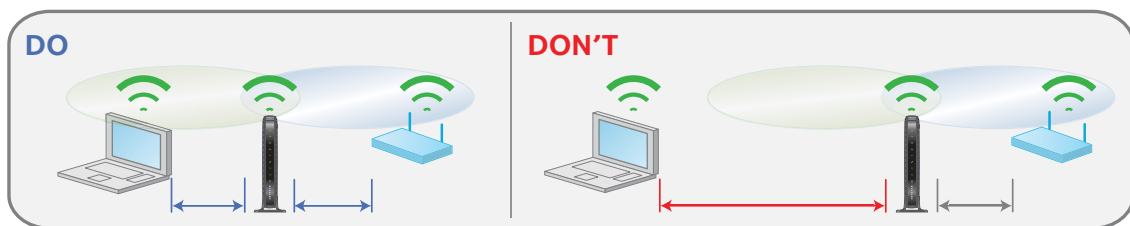
2. Within two minutes, press the **WPS** button on your router or access point.



The WPS LED on the extender lights solid green and the 2.4 GHz Link LED  lights.

If the 2.4 GHz Link LED does not light, try again. If it still does not light, see [Connect With the NETGEAR Installation Assistant](#) on page 13.

3. If your WiFi router supports the 5 GHz band, repeats Steps 1 and 2 to connect the extender to the 5 GHz band.
4. Unplug the extender and move it to a new location that is about halfway between your router and the area with a poor router WiFi signal.

The location that you choose must be within the range of your existing WiFi router network.



5. Plug the extender into an electrical outlet and wait for the Power LED  to light green.
6. Use the 2.4 GHz Link LED  and the 5 GHz Link LED to help you choose a spot where the extender-to-router connection is optimal.
7. If the 2.4 GHz Link LED does not light amber or green, plug the extender into an outlet closer to the router and try again.

Keep moving the extender to outlets closer to the router until this LED lights amber or green.

8. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.


The extender creates two new extender WiFi networks. The extender's new WiFi network names are based on your existing WiFi network name, with `_2GEXT` and `_5GEXT` at the end of the name.

For example:

- **Existing WiFi network name.** MyNetworkName
- **New extender WiFi network names.** MyNetworkName\_2GEXT and MyNetworkName\_5GEXT.

Use the same WiFi password that you use for your WiFi router.

9. Test the extender WiFi range by moving your WiFi-enabled device to the area with a poor router WiFi signal:
  - a. Leave your WiFi-enabled device in the area with a poor router WiFi signal and return to the extender.

- b. Check the Client Link LED  on the extender:
- If the Client Link LED is solid green or amber, your extender WiFi network reaches the area with a poor router WiFi signal and your network setup is complete.
  - If the Client Link LED is red, your extender WiFi network does not reach the area with a poor router WiFi signal.


You must move the WiFi-enabled device closer to the extender until the Client Link LED turns solid green or amber.

## Connect With the NETGEAR Installation Assistant

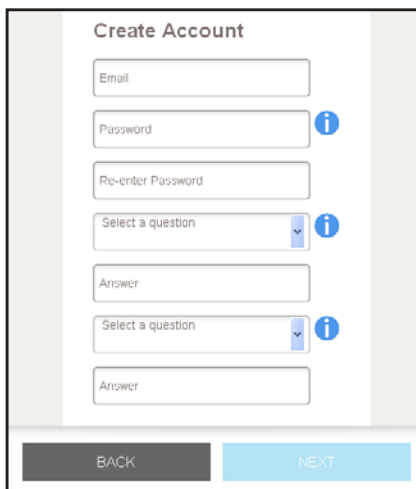
You can use a web browser to log in to the extender and set up its WiFi connection to your existing WiFi router.

➤ **To connect with the NETGEAR installation assistant:**

1. Connect your device to the extender using a wired Ethernet or WiFi connection:
  - To connect with a wired Ethernet connection, use an Ethernet cable to connect an Ethernet port on the extender to an Ethernet port on your computer.
  - To connect with WiFi, on your WiFi-enabled device, open the WiFi connection manager and locate and connect to the extender network called NETGEAR\_EXT.

After the connection with your WiFi-enabled device is established, the Client Link LED  lights.

2. Launch web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.  
The User Login page displays.
4. Enter **admin** as the user name and **password** for the password.  
The New Extender Setup page displays.
5. Click the **NEW EXTENDER SETUP** button.



The screenshot shows a 'Create Account' form with the following fields and elements:

- Email input field
- Password input field with an information icon (i)
- Re-enter Password input field
- Select a question dropdown menu with an information icon (i)
- Answer input field
- Select a question dropdown menu with an information icon (i)
- Answer input field
- BACK button
- NEXT button

The first time that you log in to the extender, the Create Account page displays. If the Create Account page does not display, visit [www.mywifiext.net](http://www.mywifiext.net).

6. Complete the fields on the Create Account page and click the **NEXT** button.
7. Click the **WIFI RANGE EXTENDER** button.

The extender searches for WiFi networks in your area and displays a list.

8. Select a WiFi network to extend and click the **NEXT** button.

If you do not want to extend both WiFi bands, clear the **2.4 GH WiFi Networks** or **5 GH WiFi Networks** check box.

9. In the **Password (Network Key)** field, type the existing WiFi network password (also called passphrase or security key) and click the **NEXT** button.
10. Set the network name (SSID) and password for your new extender WiFi network and click the **NEXT** button.

**Note:** We recommend that you use a network name (SSID) for your extender that is different from the network name (SSID) that your router uses.

Wait for the page to display the list of available extender WiFi networks, which might take up to one minute.

11. Connect your WiFi-enabled device to the new extender WiFi network using the extender SSID and password that you created in Step 10.
12. Make sure that your WiFi-enabled device is connected before you click the **Continue** button.
13. Click the **Continue** button.

A message displays confirming that the extender is connected and ready.

14. Click the **Next** button.

The registration page displays.

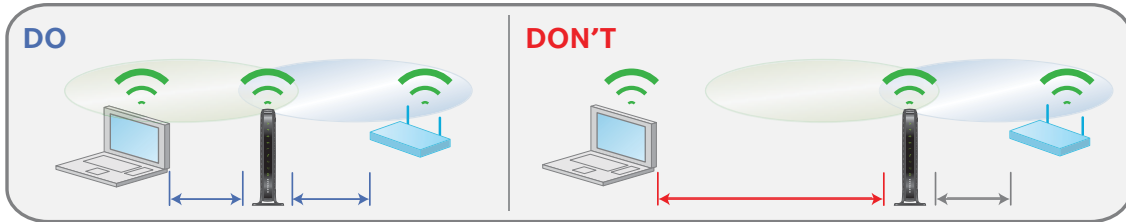
15. Complete the registration fields and click the **Finish** button to complete the setup.

If you do not want to register your extender, click the **Skip Registration** link. Note that you must register your extender before you can use NETGEAR telephone support.

The Status page displays.


16. Unplug the extender and move it to a new location that is about halfway between your router and the area with a poor router WiFi signal.

The location that you choose must be within the range of your existing WiFi router network.



17. Plug the extender into an electrical outlet and wait for the Power LED to light green.
18. Use the 2.4 GHz Link LED to help you choose a spot where the extender-to-router connection is optimal.
19. If the 2.4 GHz Link LED doesn't light amber or green, plug the extender into an outlet closer to the router and try again.

Keep moving the extender to outlets closer to the router until the 2.4 GHz Link LED lights amber or green.

20. Reconnect your WiFi-enabled device to the new extender WiFi network.
21. Test the extended WiFi range by moving your WiFi-enabled device to the area with a poor router WiFi signal:
  - a. Leave your WiFi-enabled device in the area with a poor router WiFi signal and return to the extender.
  - b. Check the Client Link LED  on the extender:
    - If the Client Link LED is solid green or amber, your extender WiFi network reaches the area with a poor router WiFi signal and your network setup is complete.
    - If the Client Link LED is red, your extender WiFi network does not reach the area with a poor router WiFi signal.

You must move the WiFi-enabled device closer to the extender until the Client Link LED turns solid green or amber.

## Connect Ethernet-Enabled Devices

After the extender is connected to your existing WiFi network, you can connect wired devices to the extender using Ethernet cables. The devices can then access your existing network through the extender's WiFi connection.

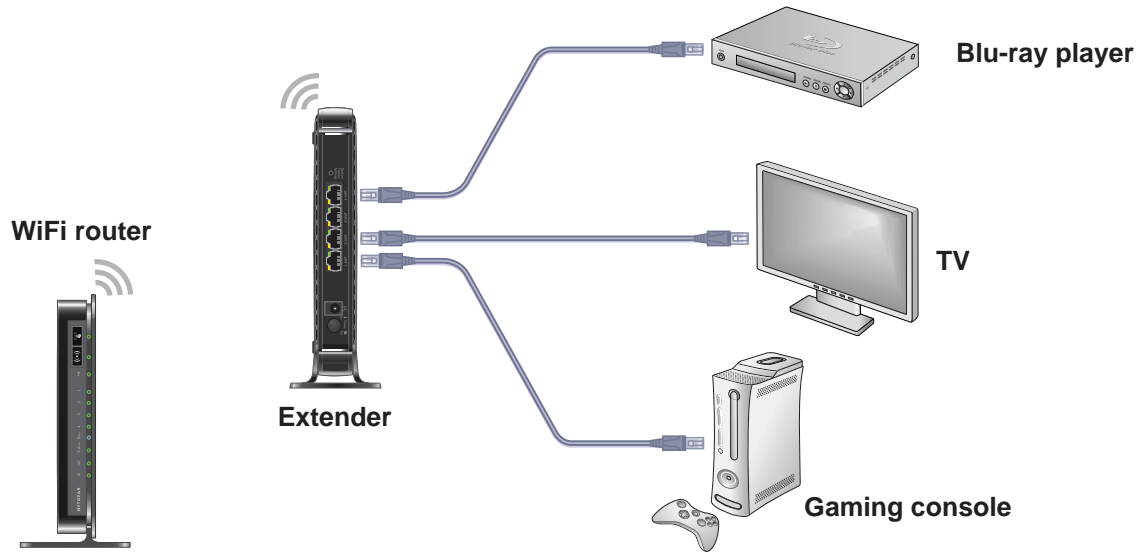


Figure 4. Ethernet LAN port

## Use the Extender in Access Point Mode

You can use the extender as a WiFi access point, which creates a new WiFi hotspot by using a wired Ethernet connection.

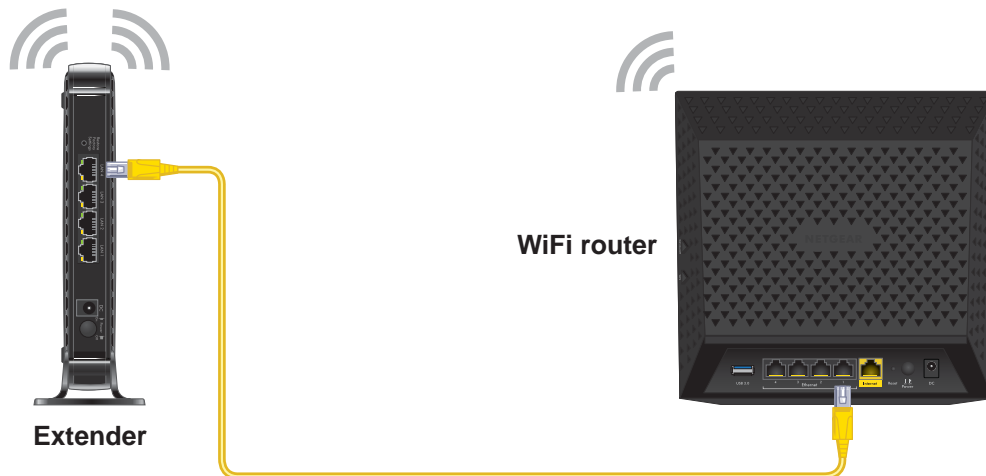


Figure 5. Extender in access point mode

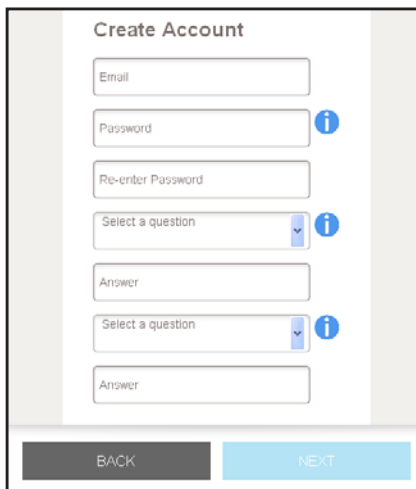


➤ **To use the extender in access point mode:**

1. Use an Ethernet cable to connect the Ethernet port on the extender to an Ethernet LAN port on a router or a remote Ethernet LAN jack with LAN access.
2. Plug the extender into an electrical outlet and wait for the Power LED to light green.
3. If the Power LED does not light, press the **Power On/Off** button.
4. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to one of the following WiFi extender networks:
  - **2.4 GHz network.** NETGEAR\_EXT
  - **5 GHz network.** NETGEAR\_5GEXT

When you join the network, the extender Client Link LED  lights to show that you are connected.

5. Launch a web browser and enter **www.mywifiext.net** in the address field.  
The New Extender Setup page displays.
6. Click the **NEW EXTENDER SETUP** button.



7. Complete the fields on the page and click the **NEXT** button.
8. Click the **ACCESS POINT** button.  
The extender checks for an Internet connection.
9. When prompted, set the network name (SSID), security option, and password for each access point network and click the **NEXT** button.  
Your settings are applied and the extender is ready to be used as an access point.
10. Connect your WiFi-enabled device to the new access point WiFi network using the SSID and password that you created in Step 9.
11. Click the **Continue** button.  
A page displays that says you successfully created an access point.
12. Click the **Next** button.

The registration page displays.


13. Follow the onscreen instructions to register your extender.

## Access Extender Settings

After installation, you can log in to the extender to view or change the extender's settings.

### ➤ To log in to the extender:

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.

After the connection with the WiFi-enabled device is established, the Client Link LED  lights.

2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.

## Run Smart Setup Installation

You can use Smart Setup to change the extender settings. This is an easy way to connect the extender to a different router or to change the extender WiFi network name (SSID) or WiFi password.

### ➤ To run Smart Setup:

1. Use a WiFi network manager on a WiFi-enabled device to find and connect to the new extender WiFi network.

After the connection with the WiFi-enabled device is established, the Device Link LED lights solid green.

2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
4. Enter your email address and password and click the **LOG IN** button.  
The Status page displays.
5. Click the **SMART SETUP** button.  
The Welcome page displays.
6. Click the **WIFI RANGE EXTENDER** button.

The extender scans for WiFi signals and finds the WiFi networks in your area and displays a list.

7. Select your WiFi network and click the **NEXT** button.
8. When prompted, enter the password to connect to your WiFi network and click the **NEXT** button.

A message displays when the extender connects to your existing router's WiFi network.

9. Click the **NEXT** button.

The extender applies your settings to its WiFi network names and WiFi passwords. During this change, the extender disconnects you from its WiFi network.

10. When prompted, connect your WiFi devices to the extender WiFi network and click the **CONTINUE** button.

The registration page displays.

11. Complete the registration fields and click the **FINISH** button to complete the setup.

If you do not want to register your extender, click the **Skip Registration** link. Note that you must register your extender before you can use NETGEAR telephone support.

The Status page displays.

## 3. Extender Network Settings

---

This chapter covers the following topics:

- *View Connected Devices*
- *View WiFi Settings*
- *Change the WiFi Network Name*
- *Turn Off the SSID Broadcast to Create a Hidden Network*
- *Disable or Enable the WiFi Radio*
- *Change the WiFi Speed*
- *Use WPS to Add a Computer to the Extender's WiFi Network*
- *Deny Access to a WiFi-Enabled Device*
- *Set Up an Access Schedule*
- *Set Up the Extender to Use a Static IP Address*
- *Use the Extender with MAC Filtering or Access Control*

## View Connected Devices

You can view a list of devices that are connected to the extender network.

➤ **To view connected devices:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.

A login window opens.

4. Enter your user name and password and click the **LOG IN** button.

The Status page displays.

5. Select **Settings > Connected Devices**.

Connected Devices			
WiFi Extender			
IP Address	Network Name (SSID)	MAC Address	Virtual MAC Address
192.168.1.250	NETGEAR68_2GEXT	00:90:4C:01:30:01	00:90:4C:01:30:01
192.168.3.1	NETGEAR68-5G-2_5GEXT	C6:04:15:06:69:F2	C6:04:15:06:69:F2
Wired Devices <span style="float: right;">Refresh</span>			
IP Address	Device Name	MAC Address	Virtual MAC Address
WiFi Devices <span style="float: right;">Refresh</span>			
<input type="checkbox"/> Enable Access Control			
IP Address	Device Name	MAC Address	Virtual MAC Address
192.168.1.2	Emiller-PC	1C:3E:84:51:49:AC	02:0F:B5:51:49:AC
--	--	A0:63:91:DD:F2:DB	02:0F:B5:DD:F2:DB
192.168.1.1	--	A0:63:91:DD:F2:DC	02:0F:B5:DD:F2:DC
		CANCEL	SAVE

## View WiFi Settings

➤ **To view the WiFi settings:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.

A login window opens.

4. Enter your user name and password and click the **LOG IN** button.

The Status page displays.

5. Select **Settings > WiFi**.

**WiFi Settings** [CANCEL] [SAVE]

Regional Settings: North America

**General**

Ethernet ports to WiFi use the following band:  2.4GHz  5GHz

2.4GHz Network	5GHz Network
<input checked="" type="checkbox"/> Enable 2.4GHz WiFi	<input checked="" type="checkbox"/> Enable 5GHz WiFi
Network Name (SSID) NETGEAR68_2GEXT	Network Name (SSID) NETGEAR68-5G-2_5GEXT
<input checked="" type="checkbox"/> Broadcast this Network name (SSID)	<input checked="" type="checkbox"/> Broadcast this Network name (SSID)
WiFi Channel Auto	WiFi Channel Auto
WiFi Speed Up to 300 Mbps	WiFi Speed Up to 300 Mbps
WiFi Password Same as existing network password	WiFi Password Same as existing network password

## Change the WiFi Network Name

➤ **To change the WiFi network name:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.

A login window opens.

4. Enter your user name and password and click the **LOG IN** button.

The Status page displays.

5. Select **Settings > WiFi**.

6. In each **Network Name (SSID)** field, type a network name.

7. Click the **SAVE** button.

Your settings are saved.

## Turn Off the SSID Broadcast to Create a Hidden Network

By default, the extender broadcasts its WiFi signal so that its WiFi network names (SSIDs) are easy for you to find from your computer, tablet, or smartphone. You can turn off the SSID broadcast to create a hidden WiFi network. To connect to a hidden network you must know its SSID and password and manually enter them.

➤ **To turn off the SSID broadcast to create a hidden network:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.

A login window opens.

4. Enter your user name and password and click the **LOG IN** button.

The Status page displays.

5. Select **Settings > WiFi**.

6. Clear the **Broadcast the Network name (SSID)** check box.

7. Click the **SAVE** button.

Your settings are saved.

## Disable or Enable the WiFi Radio

By default, the extender’s WiFi radios broadcast signals in the 2.4 GHz band and 5 GHz band. If you disable the WiFi radios, then no one can connect with WiFi to the extender.

➤ **To disable or enable the WiFi radios:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.

2. Launch a web browser.

3. Enter **www.mywifiext.net** in the address field of the browser.

A login window opens.

4. Enter your user name and password and click the **LOG IN** button.

The Status page displays.



5. Select **Settings > WiFi**.

6. Select or clear the **Enable 2.4 GHz WiFi** check box.
7. Select or clear the **Enable 5 GHz WiFi** check box.
8. Click the **SAVE** button.

Your settings are saved.

## Change the WiFi Speed

➤ **To change the WiFi speed:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.

A login window opens.

4. Enter your user name and password and click the **LOG IN** button.

The Status page displays.

5. Select **Settings > WiFi**.

6. In each **WiFi Speed** menu, select a speed.

7. Click the **SAVE** button.

Your settings are saved.

## Use WPS to Add a Computer to the Extender's WiFi Network

WPS (WiFi Protected Setup) lets you connect a WiFi-enabled device to the extender's network without entering the WiFi network passphrase or key. Instead, you use a **WPS** button or enter a PIN to connect.

If you use the button method, the WiFi device that you are trying to connect must include a physical button or a software button. If you use the PIN method, you must know the PIN of the WiFi device that you are trying to connect.

WPS supports WPA and WPA2 WiFi security. If your extender network is open (no WiFi security is set), connecting with WPS automatically sets WPA + WPA2 WiFi security on the extender network and generates a random passphrase. You can view this passphrase on the WiFi Settings page (for more information, see [View WiFi Settings](#) on page 21).

For information about using WPS to connect the extender to a WiFi network during setup, see [Use the Extender in Access Point Mode](#) on page 16.

## Use WPS With the Push Button Method

For you to use the push button method to connect a WiFi device to the extender's WiFi network, the WiFi device that you are trying to connect must include a physical **WPS** button or an onscreen **WPS** button that you can click.

➤ **To use WPS to add a WiFi-enabled device to the extender's WiFi network:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
5. Select **Settings > Do More > Connect Devices (WPS)**.

6. Leave the **Push Button (recommended)** radio button selected.
7. Click the **WIFI PROTECTED SETUP (WPS)** button.  
For two minutes, the extender attempts to add the WiFi-enabled device to its WiFi network.
8. Within two minutes, go to the computer WiFi device and press or click its **WPS** button.
9. To verify that the WiFi device is connected to the extender's WiFi network, select **Settings > Connected Devices**.

The WiFi device displays onscreen.

## Use WPS With the PIN Method

To use the PIN method to connect a WiFi device to the extender's WiFi network, you must know the PIN of the WiFi device that you are trying to connect.

➤ **To add a WiFi-enabled device to the extender's WiFi network:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.

3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
5. Select **Settings > Do More > Connect Devices (WPS)**.  
The Connect Devices (WPS) page displays.
6. Select the **PIN Number** radio button.

7. Type the PIN of the WiFi device in the field.
8. Click the **NEXT** button.  
For four minutes, the extender attempts to find the WiFi-enabled device.
9. Within four minutes, go to the WiFi device and use its WPS software to join the WiFi network.
10. To verify that the WiFi device is connected to the extender's WiFi network, select **Settings > Connected Devices**.  
The WiFi device displays onscreen.

## Deny Access to a WiFi-Enabled Device

By default, access control is disabled so that it is easy for you to connect to the extender's WiFi networks.

You can deny network access to specific computers and WiFi devices based on their MAC addresses. Each network device is assigned a MAC address, which is a unique 12-character physical address, containing the hexadecimal characters 0–9, a–f, or A–F only, and separated by colons (for example, 00:09:AB:CD:EF:01). Typically, the MAC address is on the label of the WiFi device. If you cannot access the label, you can display the MAC address using the network configuration utilities of the computer. You might also find the MAC addresses on the Connected Devices page (see [View Connected Devices](#) on page 21).

### ➤ To use WiFi access control to deny access:

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.

2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
5. Select **Settings > Connected Devices**.

**Connected Devices**

WiFi Extender

IP Address	Network Name (SSID)	MAC Address	Virtual MAC Address
192.168.1.250	NETGEAR68_2GEXT	00:90:4C:01:30:01	00:90:4C:01:30:01
192.168.3.1	NETGEAR68-5G-2_5GEXT	C6:04:15:06:69:F2	C6:04:15:06:69:F2

Wired Devices Refresh

IP Address	Device Name	MAC Address	Virtual MAC Address

WiFi Devices Refresh

Enable Access Control

IP Address	Device Name	MAC Address	Virtual MAC Address
192.168.1.2	Bmiller-PC	1C:3E:84:51:49:AC	02:0F:B5:DD:F2:AC
--	--	A0:63:91:DD:F2:DB	02:0F:B5:DD:F2:DB
192.168.1.1	--	A0:63:91:DD:F2:DC	02:0F:B5:DD:F2:DC

CANCEL
SAVE

6. In the WiFi Devices section, select the **Enable Access Control** check box.  
The WiFi devices table displays the names and MAC addresses of WiFi devices that are connected to the extender.
7. Select the **Deny** check box for the device.
8. Click the **Add Time** button.
9. Click the **SAVE** button.  
Your settings are saved.

## Set Up an Access Schedule

You can control access to all users during specific periods of the day. You can set up an access schedule that prevents Internet access through the extender network based on the times that you set.

- **To set up an access schedule:**
  1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.

2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
5. Select **Do More > Access Schedule**.

**Access Schedule**

You can use this feature to control access to all users during specific periods of the day. You can also use this feature for parental controls or security. Access Schedule disables your Internet access based on times you set. **Note:** Access schedule works only in extender mode. [Learn More >](#)

Access Schedule On    Access Schedule Off

Days:    Time:

24 Hours    From  to

**Scheduled Times**

Your Internet connection will be disabled during the following times:

From	To	Days	Delete
------	----	------	--------

6. Select the **Access Schedule On** radio button.  
The page adjusts.
7. In the **Days** menu and the **Time** menu, select the day and time when you want to disable Internet access.
8. Click the **Add Time** button.  
The time you specified is added to the Scheduled Times table.
9. Click the **SAVE** button.  
Your settings are saved.

## Set Up the Extender to Use a Static IP Address

The extender comes set up to use a dynamic IP address, which is the correct setting for most home networks.

- **To set up the extender to use a static IP address:**
1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.

2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
5. Select **Settings > WiFi Settings**.  
The WiFi Settings page displays.
6. Scroll down and click the **IP Address** heading to expand the IP address settings.

By default, the **Dynamically get IP Address from Router** radio button is selected.

7. Select the **Use Static IP Address** radio button.
8. Complete the fields to specify the IP network IP addresses.
9. Click the **SAVE** button.  
Your settings are saved.

## Use the Extender with MAC Filtering or Access Control

When the WiFi device connects through the extender to your router, the MAC address of the WiFi device shown on the router is translated to another MAC address. If your router's MAC filter, WiFi access control, or ACL is enabled, the WiFi device connects to the extender but cannot get an IP address from the extender and cannot access the Internet. To allow the WiFi device to receive an IP address from the extender and access the Internet, you must provide the translated MAC address to the router.

### ➤ To add a translated MAC address to your router:

1. Log in to your router and disable the MAC filter, WiFi access control, or ACL.

For more information about how to disable your router's MAC filter, WiFi access control, or ACL, see your router's documentation.

2. Power on the extender and connect all of your WiFi devices to the extender.
3. Make sure that the Link Rate LED remains lit.
4. Log in to your extender:
  - a. Launch a web browser.
  - b. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
  - c. Enter your user name and password and click the **LOG IN** button.

The Status page displays.

5. Select **Settings > Connected Devices**.

The Connected Devices section displays the MAC addresses and virtual MAC addresses for computer and WiFi devices that are connected to the extender network.

6. On the router, add the extender's virtual MAC address and all the virtual MAC addresses connected to the extender network to your router's MAC filter table.
7. Enable the router's MAC filter, WiFi access control, or ACL.



# 4

## 4. Maintain and Monitor the Extender

---

This chapter covers the following topics:

- *Change the Extender User Name and Password*
- *Turn Password Protection Off and On*
- *Recover a Forgotten User Name or Password*
- *Automatically Adjust for Daylight Saving Time*
- *Manually Set the Extender Clock*
- *Back Up and Restore the Extender Configuration*
- *Back Up the Configuration Settings*
- *Return the Extender to Its Factory Default Settings*
- *Update the Firmware*
- *Restart the Extender Remotely*

## Change the Extender User Name and Password

You can change the user name and password to log in to the extender.

➤ **To add an extender user:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.

A login window opens.

4. Enter your user name and password and click the **LOG IN** button.

The Status page displays.

5. Select **Settings > Password**.

**Password**

Turn on or off password protection or change a password to protect unauthorized access to the extender web menu and Smart Setup.

---

Password On   
  Password Off

---

New User Name:

New Password:

Verify Password:

Password Recovery

---

Security Question #1\*:

Answer\*:

Security Question #2\*:

6. In the **New User Name** field, type an email address.
7. Type the password in the **New Password** field and the **Verify Password** field.
8. Select questions and enter the answers.
9. Click the **SAVE** button.

Your settings are saved.

## Turn Password Protection Off and On

We recommend that you leave password protection on to help keep your network secure. You can turn password protection off and on.

### ➤ To turn password protection off or on:

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
5. Select **Settings > Password**.  
The Password Settings page displays.
6. Select the **Password Off** or **Password On** radio button.
7. Click the **SAVE** button.  
Your settings are saved.

## Recover a Forgotten User Name or Password

If you changed the password to access the extender and set up password recovery, you can recover your password if you lose it.

### ➤ To recover your password to access the extender:

1. On a WiFi-enabled device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter **www.mywifiext.net**.  
You are prompted to enter a user name and password.
3. Click the **Username & Password Help** link.  
A page displays requesting the answers to your security questions.  
If you forgot the answers to your security questions, restore the extender's factory settings and set up your login credentials again. See *Return the Extender to Its Factory Default Settings* on page 39 and *Chapter 2, Get Started*.
4. Enter the saved answers to your security questions.
5. Click the **NEXT** button.  
Your email and password are displayed.

6. Click the **BACK** button.  
A login window opens.
7. Log in to the extender.

## Automatically Adjust for Daylight Saving Time

- **To set up the extender to automatically adjust for daylight saving time:**
  1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
  2. Launch a web browser.
  3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
  4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
  5. Select **Do More > Access Schedule**.  
The Access Schedule page displays.
  6. Select the **Automatically adjust for daylight savings** time check box.
  7. Click the **SAVE** button.  
Your settings are saved.

## Manually Set the Extender Clock

- **To manually set the extender clock:**
  1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
  2. Launch a web browser.
  3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
  4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
  5. Select **Do More > Access Schedule**.  
The Access Schedule page displays.
  6. In the Extender Clock section, select the **Manual** radio button.
  7. To specify the time, complete the fields or click the **Sync Clock** button to synchronize the extender time to the time on the WiFi-enabled device that you are using.

- Click the **SAVE** button.  
Your settings are saved.

## Back Up and Restore the Extender Configuration

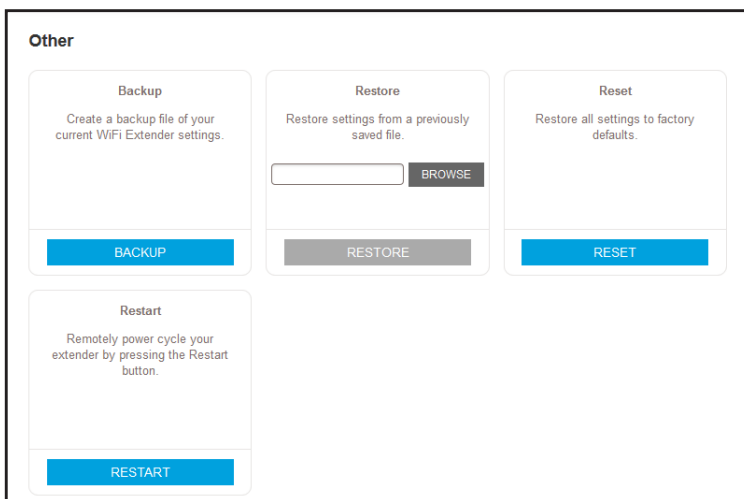
When the extender works correctly after initial setup, we recommend that you back up the extender configuration settings. After you have back up the settings, if you change the extender configuration settings but are not content with the new settings, you can restore the extender configuration to the backed-up settings.

### Back Up the Configuration Settings

You can back up the configuration file of the extender.

➤ **To back up the extender configuration settings:**

- On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
- Launch a web browser.
- Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
- Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
- Select **Settings > Other**.



- Click the **BACKUP** button.  
Your browser extracts the configuration file from the extender. By default, the name of the backup file is `NETGEAR_WN2500RPTv2.cfg`.

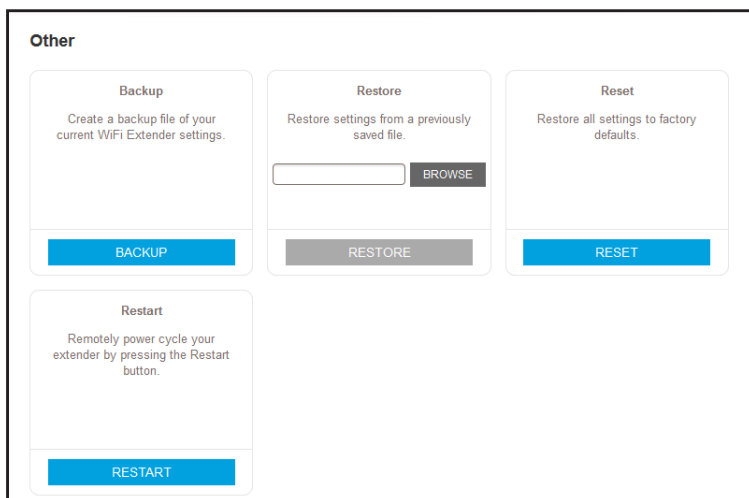
- If your browser is not set up to save downloaded files automatically, locate where you want to save the file.

## Restore the Configuration Settings

You can restore the configuration file of the extender to a previously saved configuration file.

➤ **To restore the extender configuration settings:**

- On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
- Launch a web browser.
- Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
- Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
- Select **Settings > Other**.



- Click the **BROWSE** button.
- Locate and select the previously saved backup file.

By default, the name of the backup file is `NETGEAR_WN2500RPTv2.cfg`.



**CAUTION:**

After you click the **RESTORE** button, do not try to go online, turn off the extender, shut down the computer, or do anything else to the extender until it finishes restarting.

- Click the **RESTORE** button.

A confirmation pop-up window opens.

9. Confirm your decision.

The extender configuration is restored and the extender restarts. This process takes about one minute.

## Return the Extender to Its Factory Default Settings

Under some circumstances (for example, if you lose track of the changes that you made to the extender settings), you might want to erase the configuration and reset the extender to factory default settings.

To reset the extender to factory default settings, you can either use the **Restore Factory Settings** button on the rear panel or log in to the extender and reset it.

For a list of factory default settings, see *Factory Default Settings* on page 48.

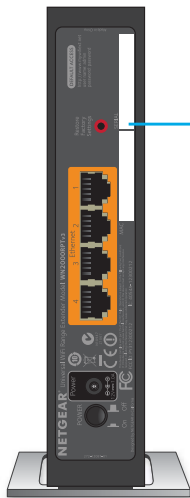
➤ **To use the Restore Factory Settings button to return the extender to factory default settings:**



**CAUTION:**

This process erases any settings that you configured in the extender.

1. Insert a straightened paper clip into the hole of the **Restore Factory Settings** button and hold it for about seven seconds.



Restore Factory Settings button

2. Release the button.



**CAUTION:**

Do not try to go online, turn off the extender, shut down the computer, or do anything else to the extender until it finishes restarting.

The extender resets and restarts. This process takes about one minute.

➤ **To log in to the extender and reset the extender to factory settings:**



**CAUTION:**

This process erases any settings that you configured in the extender.

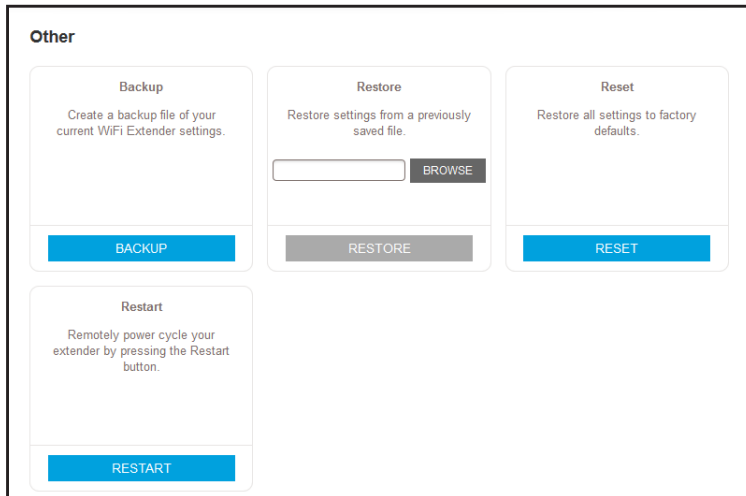
1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.

A login window opens.

4. Enter your user name and password and click the **LOG IN** button.

The Status page displays.

5. Select **Settings > Other**.



**CAUTION:**

After you click the **RESET** button, do not try to go online, turn off the extender, shut down the computer, or do anything else to the extender until it finishes restarting.

6. Click the **RESET** button.

A confirmation pop-up window opens.

7. Confirm your decision.

The extender returns to its factory settings and restarts. This process takes about one minute.



## Update the Firmware

Unless you changed the settings on the Firmware Update page previously, the extender is set up to check for new firmware automatically at login.

- **To check manually for new firmware and, if available, update the firmware:**
  1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
  2. Launch a web browser.
  3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
  4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
  5. Select **Settings > Firmware Update**.

6. Click the **CHECK ONLINE** button.
7. If new firmware is available, follow the onscreen prompts to download it onto your computer.

**Note:** You might need to unzip the firmware file.

8. Click the **BROWSE** button.
9. Locate and select the new firmware file.

The firmware file name ends with a `.chk` extension.



### CAUTION:

After you click the **UPLOAD** button, do not try to go online, turn off the extender, shut down the computer, or do anything else to the extender until it finishes restarting.

10. Click the **UPLOAD** button.

The firmware update starts and the extender restarts. The firmware update process takes a couple of minutes.

## Restart the Extender Remotely

You can log in to the extender and restart it. When the extender restarts, all computers and WiFi devices that are connected to its WiFi network are automatically disconnected.

➤ **To restart the extender remotely:**

1. On your WiFi-enabled device, open the WiFi connection manager and locate and connect to the new extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.  
A login window opens.
4. Enter your user name and password and click the **LOG IN** button.  
The Status page displays.
5. Select **Settings > Other**.  
The Other settings page displays.
6. Click the **RESTART** button.
7. When prompted, click the **Yes** button to confirm.  
The extender restarts, which takes about two minutes.

## 5. FAQs and Troubleshooting

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# 5

This chapter covers the following topics:

- *FAQs*
- *Cannot Connect to the Extender*
- *Cannot Join a WiFi Network and Receive an Error Message*

## FAQs

This section provides answers for difficulties you might experience with the extender.

### **The NETGEAR installation assistant keeps asking me for my network password (passphrase) or security key, and I am sure that I entered the correct password. What can I do?**

The extender is probably placed at the borderline of the range covered by the router or access point. For more information, see [Place the Extender and Apply Power](#) on page 11. If you are using WEP security, make sure that you are typing the network password in the correct field.

### **Can I set up the extender in extender mode if I connect it to the router with an Ethernet cable?**

No. The extender is designed to connect wirelessly to the router or access point if it is in extender mode. If the extender is in access point mode, you can connect it to the router or access point with an Ethernet connection. For more information about access point mode, see [Use the Extender in Access Point Mode](#) on page 16.

### **I forgot my login user name and password. What can I do?**

On the login page, click the **Username & Password Help** link to answer the security questions that you set up during the initial setup. For more information, see [Recover a Forgotten User Name or Password](#) on page 35.

If you forgot the answers to your security questions, do the following to set up your login credentials again:

1. Restore the extender to its factory default settings:
  - a. Use a sharp object such as a pen or paper clip to press and hold the **Restore Factory Settings** button on the extender for at least seven seconds until the Status LED lights amber.
  - b. Release the **Restore Factory Settings** button and wait for the extender to reboot.

The extender resets and returns to the factory default settings.

2. Launch a web browser.
3. Enter **www.mywifiext.net** in the address field of the browser.

The New Extender Setup page displays.
4. Click the **NEW EXTENDER SETUP** button.
5. When prompted, complete the fields on the page to set up your login credentials again.

### **I enabled a WiFi MAC filter, WiFi access control, or access control list (ACL) on my router. What should I do when installing the extender?**

When a device connects through the extender to your router, the MAC address of the device shown on the router is translated to another MAC address. If your router's MAC filter, WiFi

access control, or ACL is enabled, the device connects to the extender but cannot get an IP address from the extender and cannot access the Internet.

To allow your device to receive an IP address from the extender and access the Internet, you must provide the translated MAC address to the router.

➤ **To provide the translated MAC address to the router:**

1. Log in to your router and disable the MAC filter, WiFi access control, or ACL.  
For more information about how to disable your router's MAC filter, WiFi access control, or ACL, see your router's documentation.
2. Power on the extender and connect all of your WiFi devices to the extender network.
3. Make sure that the Router Link LED remains lit.
4. Log in to your extender:
  - a. Launch a web browser and in the address field, enter **www.mywifiext.net**.  
A login page displays.
  - b. Enter your user name and password.  
The Status page displays.
5. Select **Settings > Connected Devices**.  
The Connected Devices section displays the MAC addresses and virtual MAC addresses for the computers and WiFi devices that are connected to the extender.
6. On the router, add the extender's virtual MAC addresses and all of the virtual MAC addresses of the devices connected to the extender to your router's MAC filter table.
7. Enable the router's MAC filter, WiFi access control, or ACL.

**I am connected to NETGEAR\_EXT and launched a browser but do not see the NETGEAR installation assistant. What can I do?**

Try these troubleshooting steps:

- Make sure that your computer is set up to use DHCP (most are).
- Make sure that the Client Link LED is green and that you are using a valid IP address.
- Relaunch the web browser and type **www.mywifiext.net** in the address field. Enter your user name and password.

## Cannot Connect to the Extender

If you cannot connect to the extender, determine what prevents you from connecting:

- If you forgot your user name or password, click the **Username & Password Help** link. For more information, see [FAQs](#) on page 44.
- If your browser displays an error page, include **http://** in the address field of your browser by typing **http://www.mywifiext.net**.

- If you already set up the extender but can no longer connect to it over WiFi, check to see if the Device Link LED is off or red.
- If you cannot get a WiFi connection working, you can use an Ethernet cable to connect your computer to the extender.

## Cannot Join a WiFi Network and Receive an Error Message

To join a WiFi network, you must know its network name (also called the SSID) so that you can select it. If the network is secure, you must know the passphrase or key. If the extender does not connect to the network that you select, the cause might be one of the following:

- It is possible that you typed the network name, passphrase, or key incorrectly. Use Smart Setup (see *Run Smart Setup Installation* on page 18) to select a WiFi network and retype the passphrase or key. The passphrase or key is case-sensitive. For example, PASSWORD25 is not the same as Password25 or password25.
- If the extender cannot detect your WiFi network, check to see if your WiFi network is still working. Make sure that the WiFi router is turned on. If possible, move the extender closer to the WiFi router.
- If the extender Device Link LED is red, the WiFi connection between the WiFi router and the extender is poor. You can establish the best connection with a clear line of sight between the extender and the WiFi router. Make sure that no physical obstacles exist between the extender and the WiFi router, and try to move the extender closer to the WiFi router.

If you use Smart Setup, and the extender does not connect to the WiFi router, does not connect to the Internet, or cannot get an IP address from the WiFi router, Smart Setup displays a message to notify you that the extender is not configured.

To run Smart Setup again, click the **YES** button. To manually configure the extender, click the **NO, CONFIGURE MANUALLY** button.

# A. **Factory Settings and Technical Specifications**

---

# A

This appendix covers the following topics:

- *Factory Default Settings*
- *Technical and Environmental Specifications*

## Factory Default Settings

To reset the extender to factory default settings, you can use either the **Restore Factory Settings** button on the rear panel or log in to the extender and click the **RESET** button. For more information, see [Return the Extender to Its Factory Default Settings](#) on page 39.

The following table lists the factory default settings.

**Table 2. Factory default settings**

Factory Settings		
Setup Wizard		Enabled
WiFi	WiFi communication	Enabled
	WiFi network name (SSID)	NETGEAR_EXT
	Security	Disabled
	Transmission speed	Auto <sup>1</sup>
	Country/region	Varies by region
	Operating mode	802.11n, 802.11g, 802.11b
	Data rate	Up to 300 Mbps
DHCP		Client enabled

1. Maximum WiFi signal rate (IEEE Standard 802.11). Actual throughput can vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, and network overhead, lower actual data throughput rate.

## Technical and Environmental Specifications

The following table shows the technical and environmental specifications.

**Table 3. Technical specifications**

Technical Specifications	
Network protocol and standards compatibility	Data and routing protocols: TCP/IP, DHCP client, DNS relay, NAT (many-to-one), VPN pass-through (IPSec, PPTP)
Power adapter	<ul style="list-style-type: none"> <li>North America (input): 120V, 60 Hz, input</li> <li>All regions (output): 12 VDC @ 1A output 15W maximum</li> </ul>
Physical specifications	<ul style="list-style-type: none"> <li>Dimensions: 178 x 130 x 54 mm (7 x 5.1 x 2.1 in.)</li> <li>Weight: 280 g (0.63 lb)</li> </ul>



**Table 3. Technical specifications (continued)**

<b>Technical Specifications (continued)</b>	
Environmental	<ul style="list-style-type: none"><li>• Operating temperature: 32° to 140°F (0° to 40°C)</li><li>• Operating humidity: 90% maximum relative humidity, noncondensing</li><li>• Electromagnetic emissions: Meets requirements of FCC Part 15 Class B.</li></ul>
Interface	<ul style="list-style-type: none"><li>• 10BASE-T, 100BASE-TX, RJ-45</li><li>• 802.11n, 802.11g, 802.11b</li></ul>