Support
Thank you for purchasing this NETGEAR product. You can visit 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.

Compliance
For regulatory compliance information, visit http://www.netgear.com/about/regulatory.
See the regulatory compliance document before connecting the power supply.

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Get to Know Your Extender

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:

- Front and Side Panels
- When to Use Your Extender
- Support for the 802.11ac Networking Standard

Note: For more information about the topics covered in this manual, visit the support website at netgear.com/support.

Note: Firmware updates with new features and bug fixes are made available from time to time at downloadcenter.netgear.com. Some products can regularly check the site and download new firmware, or you can check for and download new firmware manually.
Front and Side Panels

The LEDs are located on the front panel. A switch, buttons, and an Ethernet port are located on the side panel.

The following table describes the LEDs.

Table 1. LEDs

<table>
<thead>
<tr>
<th>LED</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Router Link</td>
<td>This LED indicates the connection between the extender and the router or access point:</td>
</tr>
<tr>
<td></td>
<td>• Solid <em>green</em>. Best connection.</td>
</tr>
<tr>
<td></td>
<td>• Solid <em>amber</em>. Good connection.</td>
</tr>
<tr>
<td></td>
<td>• Solid <em>red</em>. Poor connection.</td>
</tr>
<tr>
<td></td>
<td>• Off. No connection.</td>
</tr>
<tr>
<td>Client Link</td>
<td>This LED indicates the connection between the extender and a WiFi-enabled computer or mobile device:</td>
</tr>
<tr>
<td></td>
<td>• Solid <em>green</em>. Best connection.</td>
</tr>
<tr>
<td></td>
<td>• Solid <em>amber</em>. Good connection.</td>
</tr>
<tr>
<td></td>
<td>• Solid <em>red</em>. Poor connection.</td>
</tr>
<tr>
<td></td>
<td>• Off. No connection.</td>
</tr>
</tbody>
</table>
Arrow LEDs help you place the extender. These LEDs work as follows:

- **No arrow LEDs are lit.** The extender is in a good location.
- **Client Arrow LED blinks.** Move the WiFi-enabled computer or mobile device closer to the extender.
- **Router Arrow LED blinks.** Move the extender closer to the router.

### When to Use Your Extender

We recommend that you connect to the extender only when your WiFi network connection is poor. 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-enabled device that is outside the range of the WiFi router. The extender performs two main jobs:

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

- **The extender acts as an access point for WiFi-enabled devices.**
  
  The extender broadcasts its own WiFi network that WiFi-enabled 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.
WiFi range extender
Boosts the range of your existing WiFi and creates a stronger signal in hard-to-reach areas

Existing WiFi
Sometimes your router does not provide the WiFi coverage that you need

Figure 2. Range extender in a home

Support for the 802.11ac Networking Standard

The extender supports the 802.11ac networking standard. This new standard offers better speed, improved reliability, and more range than older WiFi networking standards. The extender is backward compatible with earlier WiFi standards. However, to get the benefits of 802.11ac, your WiFi router must support the 802.11ac WiFi networking standard.

To learn more about the 802.11ac WiFi networking standard, visit netgear.com/landing/80211ac/.

3x Speed

Figure 3. Speed comparison between the 802.11n and 802.11ac standards
Get Started

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
Use the Extender in Extender Mode

In extender mode, the extender repeats the signals from an existing WiFi router or access point.

Set the Access Point/Extender switch, place the extender, supply power, and connect it to your WiFi network.

---

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 15.

---

Place the Extender and Apply Power

- To place the extender and apply power:
  1. Set the Access Point/Extender switch to Extender.
  2. Place your extender in the same room as your WiFi router.
     Proximity to the WiFi router is required only during the initial setup process.
  3. Plug the extender into an electrical outlet.
     Wait for the Power LED to light green. This might take up to 100 seconds. If the Power LED does not light, press the Power On/Off button on the side of 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 10.
- Connect with the NETGEAR installation assistant. For more information, see Connect With the NETGEAR Installation Assistant on page 12.

Connect With WPS

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

---

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 12.

---
To use WPS to connect the extender to your WiFi router:

1. Press the **WPS** button on 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, the Router Link LED 🔄 lights, and the extender connects to your existing WiFi network.

   If the Router Link LED does not light, try again. If it still does not light, see Connect With the NETGEAR Installation Assistant on page 12.

3. If your WiFi router supports the 5 GHz band, repeat 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 Router Link LED 🔄 to help you choose a spot where the extender-to-router connection is optimal.

7. If the Router 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 Router Link LED lights amber or green.

8. On your WiFi-enabled computer or mobile 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 ends of the names.

   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 new extended WiFi range by moving your WiFi-enabled computer or mobile device to the area with a poor router WiFi signal:
   a. Leave your WiFi-enabled computer or mobile 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 new extender WiFi network does not reach the area with a poor router WiFi signal.
         You must move your WiFi-enabled computer or mobile 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 using 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 the Ethernet port on the extender to an Ethernet port on your computer.
      • To connect with WiFi, on your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the extender NETGEAR_EXT (SSID) WiFi network.
         After the connection with your WiFi-enabled computer or mobile device is established, the Client Link LED lights.
   2. Launch web browser.
   3. Enter www.mywifext.net in the address field of the browser.
      The New Extender Setup page displays.
   4. Click the NEW EXTENDER SETUP 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.mywifext.net.

5. Complete the fields on the Create Account page and click the NEXT button.

6. Verify that the Access Point/Extender switch is set to Extender and click the CONTINUE button.

7. 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 GHz WiFi Networks or the 5 GHz WiFi Networks check box.

8. In the Password (Network Key) field, type the existing WiFi network password (also called passphrase or security key) and click the NEXT button.

9. 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 SSID that your router uses.

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

10. Connect your WiFi-enabled computer or mobile device to the new extender WiFi network using the extender SSID and password that you created in Step 9.

11. Make sure that your WiFi-enabled computer or mobile device is successfully connected before you click the CONTINUE button.

12. Click the CONTINUE button.

   A message displays confirming that the extender is connected to the new extender WiFi network.

13. Click the NEXT button.

   The registration page displays.

14. 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.

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

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

**16.** Plug the extender into an electrical outlet and wait for the Power LED to light green.

**17.** Use the Router Link LED to help you choose a spot where the extender-to-router connection is optimal.

**18.** If the Router 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 Router Link LED lights amber or green.

**19.** Reconnect your WiFi-enabled computer or mobile device to the new extender WiFi network.

**20.** Test the new extended WiFi range by moving your WiFi-enabled computer or mobile device to the area with a poor router WiFi signal:

   a. Leave your WiFi-enabled computer or mobile 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 new 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 new extender WiFi network does not reach the area with a poor router WiFi signal.

You must move your WiFi-enabled computer or mobile device closer to the extender until the Client Link LED turns solid green or amber.
Connect an Ethernet-Enabled Device

After the extender is connected to your existing WiFi network, you can connect a wired device to the extender using an Ethernet cable. The device can then access your existing network through the extender’s WiFi connection.

![Connect a device to the Ethernet LAN port](image)

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.

![Extender in access point mode](image)

> To use the extender in access point mode:
> 1. Set the **Access Point/Extender** switch to **Access Point**.
> 2. Plug the extender into an electrical outlet and wait for the Power LED to light green.
>    If the Power LED does not light, press the **Power On/Off** button on the side of the extender.
> 3. Use an Ethernet cable to connect the Ethernet port on the extender to a router Ethernet LAN port or a remote Ethernet LAN jack with LAN access.
>    The extender joins the LAN and creates a WiFi hotspot.
4. On your WiFi-enabled computer or mobile 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.

   ![Create Account form]

   If the Create Account page does not display, visit www.mywifiext.net.

7. Complete the fields on the Create Account page and click the NEXT button.

8. 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.

9. Connect your WiFi-enabled computer or mobile device to the new access point WiFi network using the SSID and password that you created in Step 8.

10. Click the CONTINUE button.

   A page displays that says you successfully created an access point.

11. Click the NEXT button.

   The registration page displays.

12. 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 computer or mobile device, open the WiFi connection manager and locate and connect to a new extender WiFi network.
     After the connection with the WiFi-enabled computer or mobile 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 page displays.
  4. Enter your email address and password and click the LOG IN button.
     The Status page displays.

Run Smart Setup

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. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to a new extender WiFi network.
     After the connection with the WiFi-enabled computer or mobile 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 page displays.
  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-enabled computer or mobile device 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.
Extender Network Settings

This chapter covers the following topics:

- View Connected Devices
- Boost Your Video Streaming With FastLane Technology
- Adjust the WiFi Coverage
- View WiFi Settings
- Change the WiFi Network Name
- Turn Off the SSID Broadcast to Create a Hidden Network
- Disable or Enable the WiFi Radios
- Change the WiFi Speed
- Use WPS to Add a Computer to the Extender’s WiFi Network
- Deny Access to a WiFi Device
- Set Up an Access Schedule
- Change the Extender’s Device Name
- 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 computer or mobile device, open the WiFi connection manager and locate and connect to the 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. The Status page displays.
5. Select **Settings > Connected Devices**.

![Connected Devices](image)

**Boost Your Video Streaming With FastLane Technology**

Get the most out of your HD entertainment with FastLane technology. With FastLane technology, the extender connects to your router using one band and connects to your WiFi-enabled devices using another band. Because a band is dedicated to each function, performance is enhanced.

If all your WiFi-enabled devices and your WiFi router support only the 2.4 GHz band, or all your WiFi-enabled devices and your WiFi router support only the 5 GHz band, do not enable FastLane Technology.
When you enable FastLane Technology, two options are available:

- Use the 2.4 GHz band to connect the extender to the WiFi-enabled devices and use the 5 GHz band to connect the extender to the WiFi router. Use this mode if your WiFi router supports the 5 GHz band but the WiFi-enabled devices that you want to use for gaming and streaming support the 2.4 GHz band.
- Use the 5 GHz band to connect the extender to the WiFi-enabled devices and use the 2.4 GHz band to connect the extender to the WiFi router. Use this mode if the WiFi-enabled devices that you want to use for gaming and streaming support the 5 GHz band but your WiFi router supports the 2.4 GHz band.

➢ To activate FastLane mode:

1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
2. Launch a web browser.
3. Enter www.mywifext.net in the address field of the browser. A login window opens.
4. Enter your user name and password. The Status page displays.
5. Select Do More > FastLane. The FastLane Technology page displays.
6. Select the FastLane Technology radio button.
7. Select a radio button:
   - Router-to-Extender in 2.4 GHz only and Extender-to-Device in 5 GHz only.
   - Router to Extender in 5 GHz only and Extender-to-Device in 2.4 GHz only.

8. Click the SAVE button.
   Your changes are saved.

Adjust the WiFi Coverage

You can set the extender's WiFi coverage depending on how large you want your coverage area to be.

➢ To adjust the WiFi coverage:

1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the 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.
   The Status page displays.
5. Select Do More > WiFi Coverage.

6. Select a Wireless Output Power radio button.
   If your extender is covering a small area, select a lower-output power percentage. If your extender is covering a large area, select a higher-output power percentage.

7. Click the SAVE button.
   Your settings are saved.
View WiFi Settings

➢ To view the WiFi settings:
  1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
  2. Launch a web browser.
  3. Enter www.mywifext.net in the address field of the browser.
     A login window opens.
  4. Enter your user name and password.
     The Status page displays.
  5. Select Settings > Wireless.

Change the WiFi Network Name

➢ To change the WiFi network name:
  1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
  2. Launch a web browser.
  3. Enter www.mywifext.net in the address field of the browser.
     A login window opens.
  4. Enter your user name and password.
     The Status page displays.
5. Select **Settings > Wireless**.

![Image of WiFi network settings](image)

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 and connect to 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 computer or mobile device, open the WiFi connection manager and locate and connect to the 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.
   
   The Status page displays.
5. Select **Settings > Wireless**.
   
   The Wireless page displays.
6. Clear the **Broadcast this Network Name (SSID)** check box.

![Network Settings](image)

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

### Disable or Enable the WiFi Radios

By default, the extender’s WiFi radios broadcast signals in the 2.4 GHz and 5 GHz bands. 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 computer or mobile device, open the WiFi connection manager and locate and connect to the 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.
     
     The Status page displays.
5. Select **Settings > Wireless**.

![Diagram of Network Settings]

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**

When you use the extender in FastLane mode or in access point mode, you can change the WiFi speed setting.

**Note:** When the extender connects to a router, the extender channel and speed follow the router settings. The items are grayed out on the Wireless page and cannot be selected.

➢ **To change the WiFi speed:**

1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifext.net** in the address field of the browser.
   
   A login window opens.
4. Enter your user name and password.
   
   The Status page displays.
5. Select Settings > Wireless.

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 computer or mobile 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 push button method, the WiFi-enabled computer or mobile 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-enabled computer or mobile 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 Wireless page (for more information, see View WiFi Settings on page 23).

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 15.
Use WPS With the Push Button Method

To use the button method to connect a WiFi-enabled computer or mobile device to the extender WiFi network, the WiFi-enabled computer or mobile device that you are trying to connect must include a physical **WPS** button or display an onscreen **WPS** button that you can click.

➢ **To use WPS to add a WiFi-enabled computer or mobile device to the extender WiFi network:**

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

   ![Connect Devices (WPS)
   You can securely connect WiFi client devices to the extender using the WPS feature. Learn More ➔
   - Push Button (recommended)
   - PIN Number
   Press the WPS button on your WiFi client device. Within 2 minutes, press the physical WPS button on the extender or the WPS button below.
   [WIFI PROTECTED SETUP (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 computer or mobile device to its WiFi network.
8. Within two minutes, go to the WiFi-enabled computer or mobile device and press or click its **WPS** button.
9. To verify that the WiFi-enabled computer or mobile device is connected to the extender’s WiFi network, select **Settings > Connected Devices.**
   The WiFi-enabled computer or mobile device displays onscreen.
Use WPS With the PIN Method

To use the PIN method to connect a WiFi-enabled computer or mobile device to the extender’s WiFi network, you must know the PIN of the WiFi-enabled computer or mobile device that you are trying to connect.

➢ **To use a WPS PIN to connect to the extender’s WiFi network:**

1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
2. Launch a web browser.
3. Enter `www.mywifext.net` in the address field of the browser.
   A login window opens.
4. Enter your user name and password.
   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.

   ![Connect Devices (WPS) Page](image)

   - Text: Connect Devices (WPS)
   - Text: You can securely connect WiFi client devices to the extender using the WPS feature. Learn More >
   - List:
     - Radio button: Push Button (recommended)
     - Radio button: PIN Number
   - Text: Locate the security pin on your WiFi client device and enter the pin below
   - Input field
   - Button: NEXT

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

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

You can deny network access to specific 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 20).

➢ To use WiFi access control to deny access:

1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the 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.

   The Status page displays.

5. Select Settings > Connected Devices.

   The Connected Devices page displays.

6. In the WiFi Devices section, select the Enable Access Control check box.

   ![Image of WiFi Devices table]

   The WiFi Devices table displays the names and MAC addresses of WiFi-enabled computers and mobile devices that are connected to the extender.

7. Select the Deny check box for the device.

8. Click the SAVE button.

   Your settings are saved and that device cannot connect to the extender’s WiFi network.
Set Up an Access Schedule

You can control access for 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 computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
2. Launch a web browser.
3. Enter www.mywifext.net in the address field of the browser. A login window opens.
4. Enter your user name and password. The Status page displays.
5. Select Do More > Access Schedule.

6. Select the Access Schedule On radio button.

You can select this radio button only if access control is enabled and if the extender clock is set to an accurate time. For information about how to enable access control, see Deny Access to a WiFi Device on page 30. For information about how to set the extender clock, see Manually Set the Extender Clock on page 38.

The page adjusts.

7. In the Days menu and the Time menu, select the days and time when you want to disable Internet access.
8. Click the Add Time button to add the time that you specified to the Scheduled Times table.
9. Click the SAVE button.

Your settings are saved.
Change the Extender’s Device Name

The default name is EX6150v2.

➢ To change the extender’s device name:
  1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the 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.
     The Status page displays.
  5. Select Settings > Wireless.
     The Wireless page displays.
  6. Click the IP Address heading to expand the IP Address section.

    ![IP Address](image)

  7. In the Device Name field, type a name.
  8. 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 computer or mobile device, open the WiFi connection manager and locate and connect to the 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.
   The Status page displays.
5. Select Settings > Wireless.
   The Wireless page displays.
6. Click the IP Address heading to expand the IP Address section.
   By default, the Get Dynamically 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 page displays.
   c. Enter your email address and password.
      The Status page displays.

5. Select **Settings > Connected Devices**.
   The Connected Devices page displays the MAC addresses and virtual MAC addresses for WiFi-enabled computers and mobile devices that are connected to the extender network.

6. On the router, add the extender’s virtual MAC address and the virtual MAC addresses of all devices that are connected to the extender network to your router’s MAC filter table.

7. Enable the router’s MAC filter, WiFi access control, or ACL.
Monitor and Maintain the Extender

This chapter covers the following topics:

- Change the Extender User Name and Password
- Turn Password Protection Off and On
- Recover a Forgotten Password
- Automatically Adjust for Daylight Saving Time
- Manually Set the Extender Clock
- Back Up and Manage 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 change the user name and password:

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

2. Launch a web browser.

3. Enter www.mywifext.net in the address field of the browser.
   A login window opens.

4. Enter your user name and password.
   The Status page displays.

5. Select Settings > Password.

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

Recover a Forgotten 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 your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
2. In the address field of your browser, enter www.mywifext.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 41 and Chapter 2, Get Started.
4. Enter the saved answers to your security questions.
5. Click the NEXT button.
   Your email address and password are displayed.
6. Click the BACK button.
   A login page displays.

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 computer or mobile device, open the WiFi connection manager and locate and connect to the 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.
   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 computer or mobile device, open the WiFi connection manager and locate and connect to the 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.
   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 computer or mobile device that you are using.
8. Click the SAVE button.
   Your settings are saved.
Back Up and Manage the Extender Configuration

When the extender works correctly after initial setup, we recommend that you back up the extender configuration settings. After you 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:

1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the 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.
   The Status page displays.
5. Select Settings > Other.

![Configuration Settings](image)

6. Click the BACKUP button.
   Your browser extracts the configuration file from the extender. By default, the name of the backup file is NETGEAR_EX6150v2.cfg.
7. If your browser is not set up to save downloaded files automatically, locate where you want to save the file.
8. Click the OK button.
   The extender configuration settings are backed up.


**Monitor and Maintain the Extender**

**AC1200 WiF Range Extender**

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**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:**

1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifext.net** in the address field of the browser.
   
   A login window opens.
4. Enter your user name and password.
   
   The Status page displays.
5. Select **Settings > Other**.

![Image of Settings > Other](image)

6. Click the **BROWSE** button.
7. Locate and select the previously saved backup file.
   
   By default, the name of the backup file is **NETGEAR_EX6150v2.cfg**.

![CAUTION:](image)

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!

8. Click the **RESTORE** button.
   
   A confirmation pop-up page displays.
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

To reset the extender to its factory settings, you can use the Factory Reset button on the extender or log in to the extender and erase its settings. For information about the factory settings, see Factory Default Settings on page 49.

Use the Factory Reset Button

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

To use the Factory Reset button to restore factory settings:

1. Use a paper clip into the Factory Reset hole and hold it until the Power LED blinks amber.
2. Release the button.
   All the LEDS turn off for about three seconds.
   The Power LED \(\bullet\) lights solid green.
   The extender returns to its factory settings.

When you plug in the extender, it detects the position of its Access Point/Extender switch.

Erase the Settings and Return to Factory Settings

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

To erase the extender's current settings:

1. On your WiFi-enabled computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
2. Launch a web browser.
3. Enter www.mywifext.net in the address field of the browser.
   A login window opens.
4. Enter your user name and password.
The Status page displays.

5. Select **Settings > Other**.

![Other menu](image)

**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 page displays.

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 in 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 computer or mobile device, open the WiFi connection manager and locate and connect to the extender WiFi network.
2. Launch a web browser.
3. Enter **www.mywifext.net** in the address field of the browser.
   
   A login window opens.
4. Enter your user name and password.
   
   The Status page displays.
5. Select **Settings > Firmware Update**.

![Firmware Update](image)

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 about two minutes.

### Restart the Extender Remotely

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

**To restart the extender remotely:**

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

2. Launch a web browser.

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

   A login window opens.

4. Enter your user name and password.

   The Status page displays.
5. Select **Settings > Other**.

![Settings > Other](image)

6. Click the **RESTART** button and click the **Yes** button to confirm.
   The extender restarts, which takes about two minutes.
FAQs and Troubleshooting

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 web browser setup 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. See Use the Extender in Access Point Mode on page 15.

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 or access point with an Ethernet cable?

No. The extender is designed to use WiFi to connect 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 15.

I forgot my login email address 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 Password on page 37.

How do I restore the extender to its factory default settings?

➢ To restore factory settings:

1. Use a sharp object such as a pen or paper clip to press and hold the Factory Reset button on the extender until the Power LED blinks amber.

2. Release the Factory Reset button and wait for the extender to reboot.

   The extender resets and returns to the factory default settings.

I am connected to the extender WiFi network and launched a browser. I can’t 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 enter www.mywifext.net in the address field. Type your user name and password and click the LOG IN button.
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, Recover a Forgotten Password on page 37.
- 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 Client 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 on page 17) 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 Client 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.
Factory Settings and Technical Specifications

This appendix covers the following topics:

• Factory Default Settings
• Technical and Environmental Specifications
Factory Default Settings

The following table includes the factory settings for the extender. You can use the Factory Reset button or log in and click the RESET button to return the extender to these settings. For more information, see Return the Extender to Its Factory Default Settings on page 41.

The following table shows the factory default settings.

Table 2. Factory default settings

<table>
<thead>
<tr>
<th>Feature</th>
<th>Default Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup Wizard</td>
<td>Enabled</td>
</tr>
<tr>
<td>WiFi communication</td>
<td>Enabled</td>
</tr>
<tr>
<td>WiFi network names (SSIDs)</td>
<td>NETGEAR_EXT</td>
</tr>
<tr>
<td>Security</td>
<td>Disabled</td>
</tr>
<tr>
<td>Transmission speed</td>
<td>Auto¹</td>
</tr>
<tr>
<td>Country/region</td>
<td>Varies by region</td>
</tr>
<tr>
<td>Operating mode</td>
<td>802.11a/b/g/n/ac</td>
</tr>
<tr>
<td>Data rate</td>
<td>Up to 300 Mbps for the 2.4 GHz network and 866.7 Mbps for the 5 GHz network</td>
</tr>
<tr>
<td>DHCP</td>
<td>Client enabled</td>
</tr>
</tbody>
</table>

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 includes the product specifications.

Table 3. Technical specifications

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>Data and routing protocols: TCP/IP, DHCP server and client, DNS relay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network protocol and standards compatibility</td>
<td>100–240V, 50/60 Hz, 0.18A maximum</td>
</tr>
<tr>
<td>Power consumption</td>
<td>100–240V, 50/60 Hz, 0.18A maximum</td>
</tr>
<tr>
<td>Physical specifications</td>
<td>• Dimensions: 122 x 74 x 38 mm (4.8 x 2.91 x 1.5 in.)</td>
</tr>
<tr>
<td>Environmental</td>
<td>• Weight: 294 g (0.65 lb)</td>
</tr>
<tr>
<td>Interface</td>
<td>• Operating temperature: 32° to 140°F (0° to 40°C)</td>
</tr>
<tr>
<td></td>
<td>• Operating humidity: 90% maximum relative humidity, noncondensing</td>
</tr>
<tr>
<td></td>
<td>• Local: 10BASE-T, 100BASE-TX, 1000BASE-T, RJ-45</td>
</tr>
<tr>
<td></td>
<td>• 802.11ac, 802.11n, 802.11a, 802.11g, 802.11b</td>
</tr>
</tbody>
</table>