Support
Thank you for selecting NETGEAR products.
After installing your device, locate the serial number on the label of your product and use it to register your product at https://my.netgear.com. You must register your product before you can use NETGEAR telephone support. NETGEAR recommends registering your product through the NETGEAR website.
For product updates and web support, visit http://support.netgear.com.
Phone (US & Canada only): 1–888-NETGEAR.
Phone (Other Countries): Check the list of phone numbers at http://support.netgear.com/general/contact/default.aspx.

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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Overview

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

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

**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.
Meet Your Extender

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

Front Panel

The LEDs are located on the front panel.

![Front Panel Diagram]

**Figure 1. Extender front panel**

**Table 1. LEDs**

<table>
<thead>
<tr>
<th>LED</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Router Link LED</td>
<td>The connection between the extender and the router or access point.</td>
</tr>
<tr>
<td>Client Link LED</td>
<td>The connection between the extender and a computer or WiFi device.</td>
</tr>
<tr>
<td>Status LED</td>
<td>• Solid amber. The extender is booting.</td>
</tr>
<tr>
<td>WPS LED</td>
<td>• Solid green. WiFi security is enabled (WPA or WPA2).</td>
</tr>
</tbody>
</table>

- **Solid green.** Best connection.  
- **Solid amber.** Good connection.  
- **Solid red.** Poor connection.  
- **Off.** No connection.
Rear Panel

Ports, connectors and buttons are located on the rear panel.

![Figure 2. Extender rear panel](image)

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.
  
  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.

**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 3. Range extender in a home
Get Started

This chapter covers the following topics:

• Install the WiFi Extender
• Use the Extender in Access Point Mode
• Log In to the Extender After Installation
• Run Smart Setup Installation
Install the WiFi Extender

Place the extender, apply 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 14.

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. Plug the extender into an electrical outlet.
3. Wait for the Status LED to light amber and then turn green.
   If the Status 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 web browser setup. For more information, see Connect with Web Browser Setup on page 11.

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 Web Browser Setup on page 11.

➢ 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, 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 Web Browser Setup** on page 11.

3. Find the new extender network name on your computer or WiFi device.  
The extender creates two new extended WiFi networks. The extender’s new WiFi network names are based on your existing WiFi network name, with _EXT at the end of the name.  
For example:
   - **Existing WiFi network name.** MyNetworkName
   - **New extended network name.** MyNetworkName_EXT

4. Connect your computer or WiFi devices to the new extended WiFi network.  
   Use the same WiFi password that you use for your WiFi router.

5. Unplug the extender and move it to a new location closer to the area with a poor WiFi signal.  
The location that you choose must be within the range of your existing WiFi router network.

6. Plug the extender into an electrical outlet.

7. Wait for the Status LED to light amber and then turn green.  
   If the Status LED does not light, press the **Power On/Off** button on the side of the extender.

8. Use the Router Link LED on the front panel to help you choose a spot where the extender-to-router connection is optimal.

**Connect with Web Browser Setup**

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

➢ **To use a web browser to connect the extender to your WiFi router:**

1. Use a WiFi network manager on a computer or WiFi device to find and connect to the extender WiFi network NETGEAR_EXT.  
   After the connection with the computer or WiFi device is established, the Device 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.mywifiext.net.

5. Complete the fields on the page and click the NEXT button.
6. When prompted, select your country or region from the Regional Settings menu and click the NEXT button.

7. Click the WIFI RANGE EXTENDER button.
   The extender scans for WiFi networks in your area and displays a list.
8. Select a WiFi network to extend and click the NEXT button.
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.
11. Connect your computer or WiFi device to the new extended WiFi network using the extender SSID and password that you set up in Step 10.

   **Note:** To connect additional devices, repeat Step 11.

12. Make sure that your computer or WiFi device is connected before you click the Continue button.
13. Click the Continue button.

   A message displays confirming that the extender is connected to the new extended WiFi network.
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 closer to the area with a poor 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.
   Wait for the Status LED to light amber and then turn green.
   If the Status LED does not light, press the Power On/Off button.

18. Use the Router Link LED to help you choose a spot where the extender-to-router connection is optimal.
   The extender connects to your existing router’s WiFi network.

**Find the Best Location**

If the WiFi signal is weak, the first time you join the extender network, the Router Link LED or Device Link LED is amber or red. If this happens, adjust the position of the extender:

- If the Router Link LED is amber or red, move the extender closer to the router.
- If the Device Link LED is amber or red, move the computer or WiFi device closer to the extender.
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.

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.

➢ To use the extender in access point mode:
  1. Plug the extender into an electrical outlet.
  2. Wait for the Status LED to light amber and then turn green.
If the Status 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. Use a WiFi network manager on a computer or WiFi device to find and connect to the NETGEAR_EXT (SSID) WiFi network.

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

5. Launch a web browser and enter [www.mywifiext.net](http://www.mywifiext.net) in the address field.

   The New Extender Setup page displays.

6. 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.mywifiext.net](http://www.mywifiext.net).

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

8. When prompted, select your country or region from the **Regional Settings** menu and click the **NEXT** button.

9. Click the **ACCESS POINT** button.

   The extender checks for an Internet connection.

10. Click the **HOME NETWORK** or **PUBLIC NETWORK** button.
11. When prompted, set the network name (SSID), security option, and password, and click the NEXT button.

Your settings are applied and the extender is ready to be used as an access point.

12. Use a WiFi network manager on the computer or WiFi device to connect to the new access point network.

Repeat this step for all of your computers and WiFi devices.

13. Click the CONTINUE button.

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

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.

Log In to the Extender After Installation

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

➢ To log in to the extender:

1. Use a WiFi network manager on a computer or WiFi device to find and connect to the new extended WiFi network.

After the connection with the computer or WiFi 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.

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 computer or WiFi device to find and connect to the new extended WiFi network.
   After the connection with the computer or WiFi device is established, the Device Link LED lights solid green.

2. Launch a web browser.

3. Enter www.mywifext.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.
This chapter covers the following topics:

- View Connected Devices
- View WiFi Settings
- Turn Off the SSID Broadcast to Create a Hidden Network
- Disable or Enable the WiFi Radio
- Change the WiFi Speed
- Customize the Extender’s WiFi Coverage Area
- Use WPS to Add a Computer to the Extender’s WiFi Network
- Deny Access to a Computer or WiFi Device
- Set Up an Access Schedule
- Set Up the Extender to Use a Static IP Address
- Specify WPS Settings
View Connected Devices

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

➢ To view connected devices:

1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter www.mywifiext.net.
3. When prompted, enter your email address and password.
4. Click the Menu icon.

The extender menu displays.
5. Select Settings > Connected Devices.

View WiFi Settings

➢ To view the WiFi settings:

1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter www.mywifiext.net.
3. When prompted, enter your email address and password.
4. Click the Menu icon.

The extender menu displays.
5. Select **Settings > WiFi**.

![Network Settings](image)

### Change the WiFi Network Name

- **To change the WiFi network name:**
  1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
  2. In the address field of your browser, enter **www.mywifiext.net**.
  3. When prompted, enter your email address and password.
  4. Click the **Menu** icon.
     
     The extender menu 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 wireless 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 a computer or WiFi device that is connected to the extender network, launch a web browser.

2. In the address field of your browser, enter **www.mywifiext.net**.

3. When prompted, enter your email address and password.

4. Click the **Menu** icon.

   The extender menu displays.

5. Select **Settings > WiFi**.

![Extender Settings Menu](image)

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. 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 a computer or WiFi device that is connected to the extender network, launch a web browser.
  2. In the address field of your browser, enter www.mywifiext.net.
  3. When prompted, enter your email address and password.
  4. Click the Menu icon.

    The extender menu displays.
  5. Select Settings > WiFi.

    ![Extender Network Settings](image)

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

Your settings are saved.

Change the WiFi Speed

➢ To change the WiFi speed:
  1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
  2. In the address field of your browser, enter www.mywifiext.net.
  3. When prompted, enter your email address and password.
4. Click the **Menu** icon.
   The extender menu displays.

5. Select **Settings > WiFi**.

![Extender Network Settings](image)

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

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

### Customize the Extender’s WiFi Coverage Area

By default, the extender uses its maximum WiFi coverage area. You can select a smaller coverage area, which uses less electrical power.

- **To customize the extender’s WiFi coverage area:**
  1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
  2. In the address field of your browser, enter **www.mywifiext.net**.
  3. When prompted, enter your email address and password.
  4. Click the **Menu** icon.
     The extender menu displays.
5. Select **Do More > WiFi Coverage**.

   ![WiFi Coverage](image)

   Adjust the output and range of your extended WiFi network. For a smaller coverage area, choose a lower output power percentage. For a larger coverage area, select a higher output power percentage.

6. Select a radio button for the output power.
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 computer or WiFi 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 push 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 19).

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 14.

**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 computer or WiFi device to the extender’s WiFi network:**

1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter **www.mywifiext.net**.
3. When prompted, enter your email address and password.
4. Click the Menu icon 

The extender menu displays.


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 computer or WiFi 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 computer or WiFi device to the extender’s WiFi network:

1. On a computer or WiFi device that is connected to the extender network, launch a web browser.

2. In the address field of your browser, enter www.mywifiext.net.

3. When prompted, enter your email address and password.

4. Click the Menu icon 

The extender menu displays.


The Connect Devices (WPS) page displays.
6. Select the **PIN Number** radio button.

   ![Connect Devices (WPS)](image)
   
   You can securely connect WiFi client devices to the extender using the WPS feature. Learn more →

   - Push Button (recommended)
   - PIN Number

   Locate the security pin on your WiFi client device and enter the pin below.

   ![Next Button](image)

   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 computer or WiFi 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 Computer or WiFi 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 19).

➢ **To use WiFi access control to deny access:**

1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter **www.mywifext.net**.
3. When prompted, enter your email address and password.
4. Click the **Menu** icon ☐.

   The extender menu displays.
5. Select **Settings > Connected Devices**.

   ![Connected Devices Table](image)

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 **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 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 a computer or WiFi device that is connected to the extender network, launch a web browser.

2. In the address field of your browser, enter `www.mywifiext.net`.

3. When prompted, enter your email address and password.

4. Click the **Menu** icon.

   The extender menu displays.
5. Select **Do More > Access Schedule**.

6. Select the **Access Schedule On** radio button.

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.

**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 a computer or WiFi device that is connected to the extender network, launch a web browser.

2. In the address field of your browser, enter **www.mywifiext.net**.

3. When prompted, enter your email address and password.

4. Click the **Menu** icon ☰.

   The extender menu 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.

![IP Address Settings](image)

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.

### Specify WPS Settings

Wi-Fi Protected Setup (WPS) lets you connect devices to the WiFi network without typing the WiFi password.

- **To specify WPS settings:**
  
  1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
  2. In the address field of your browser, enter **www.mywifiext.net**.
  3. When prompted, enter your email address and password.
  4. Click the **Menu** icon.
     
     The extender menu displays.
  5. Select **Settings > WiFi Settings**.
     
     The WiFi Settings page displays.
6. Scroll down and click the **WPS** heading to expand the WPS settings.

In most situations, the default settings work fine, but you can change them:

- **Enable WPS PIN.** When this check box is selected, you can use a PIN to connect to the extender WiFi network with WPS.

  If someone enters the wrong PIN multiple times when attempting to connect with WPS, this check box is automatically cleared.

- **Auto disable the PIN after 3 failed PIN entries, to prevent PIN compromise.** This setting specifies the number of times the wrong PIN can be entered before WPS PIN access is automatically disabled to protect your WiFi network from unauthorized access.

- **Keep existing WiFi settings for 2.4 GHz network.** This setting means that the name of the WiFi network remains the same when WPS is used. If you clear this check box each time you use WPS to connect, the extender WiFi network name is replaced with a new, randomly generated WiFi network name.

7. To save changes, click the **SAVE** button.

Your settings are saved.
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 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 add an extender user:**

1. On a computer or WiFi device that is connected to the extender network, launch a web browser.

2. In the address field of your browser, enter **www.mywifiest.net**.

3. When prompted, enter your email address and password.

4. Click the **Menu** icon.

   The extender menu displays.

5. Select **Settings > Password**.

   ![Password Form](image)

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.
Maintain and Monitor the Extender

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 a computer or WiFi device that is connected to the extender network, launch a web browser.
  2. In the address field of your browser, enter `www.mywifiext.net`.
  3. When prompted, enter your email address and password.
  4. Click the **Menu** icon.
     The extender menu 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 computer or WiFi 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 37 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 a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter [www.mywifiext.net](http://www.mywifiext.net).
3. When prompted, enter your email address and password.
4. Click the **Menu** icon.

   The extender menu 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 a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter [www.mywifiext.net](http://www.mywifiext.net).
3. When prompted, enter your email address and password.
4. Click the **Menu** icon.

   The extender menu 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 computer or WiFi 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 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:

1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter www.mywifiext.net.
3. When prompted, enter your email address and password.
4. Click the Menu icon.
   The extender menu displays.
5. Select Settings > Other.
   ![Extender Menu](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_WN2000RPv3.cfg.
7. 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:

1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter www.mywifiext.net.
3. When prompted, enter your email address and password.
4. Click the Menu icon ➖. The extender menu displays.
5. Select Settings > Other.

![Extender menu settings](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_WN3000RPv3.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 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 45.

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.

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’s to factory settings:

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

1. On a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter www.mywifiext.net.
3. When prompted, enter your email address and password.
4. Click the Menu icon.
   The extender menu 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 Restore Factory Settings 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 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 a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter www.mywifext.net.
3. When prompted, enter your email address and password.
4. Click the Menu icon.
   The extender menu displays.
5. Select Settings > Firmware Update.

   Firmware Update
   Check for Update
   Check for new version online
   Upload Update File
   Locate and select the update file on your device

   CHECK ONLINE
   BROWSE
   UPLOAD

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 a computer or WiFi device that is connected to the extender network, launch a web browser.
2. In the address field of your browser, enter `www.mywifiext.net`.
3. When prompted, enter your email address and password.
4. Click the **Menu** icon.  
   The extender menu displays.
5. Select **Settings > Other**.  
   The Other Settings page displays.
6. Click the **RESTART** button and click the **Yes** button to confirm.  
   The extender restarts, which takes about two minutes.
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. For more information about where the place the extender, see *Find the Best Location* on page 13.

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 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 14.

**I forgot my login email address and password. What can I do?**

On the login screen, 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 33.

➢ **To restore factory settings:**

1. 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 five seconds until the Status LED lights amber.

2. Release the **Restore Factory Settings** button and wait for the extender to reboot.

   The extender resets and returns to the factory default settings.

**I use MAC filtering or an access control list (ACL) on my WiFi router. How can I include devices on the extender network in my MAC access list?**

The extender uses a single MAC address for all devices connected to its network. Adding the extender MAC address to the ACL for your router automatically includes devices connected to the extender network. To view the extender MAC address from a NETGEAR router, use a web browser to log in to the router and view the Attached Devices or Connected Devices page. For more detailed instructions, see the documentation for your router.
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 42.

• 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 16) 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

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 the Erase function. For more information, see Return the Extender to Its Factory Default Settings on page 37.

The following table lists the factory default settings.

Table 2. Factory default settings

<table>
<thead>
<tr>
<th>Factory Settings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup Wizard</td>
<td>Enabled</td>
</tr>
<tr>
<td>WiFi</td>
<td></td>
</tr>
<tr>
<td>WiFi communication</td>
<td>Enabled</td>
</tr>
<tr>
<td>WiFi network name (SSID)</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>802.11n, 802.11g, 802.11b</td>
</tr>
<tr>
<td>Data rate</td>
<td>Up to 300 Mbps</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 shows the technical and environmental specifications.

Table 3. Technical specifications

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Network protocol and standards compatibility</td>
<td>Data and routing protocols: TCP/IP, DHCP client, DNS relay, NAT (many-to-one), VPN pass-through (IPSec, PPTP)</td>
</tr>
<tr>
<td>Power adapter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• North America (input): 120V, 60 Hz, input</td>
</tr>
<tr>
<td></td>
<td>• All regions (output): 12 VDC @ 1A output 15W maximum</td>
</tr>
<tr>
<td>Physical specifications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Dimensions: 178 x 130 x 54 mm (7 x 5.1 x 2.1 in.)</td>
</tr>
<tr>
<td></td>
<td>• Weight: 280 g (0.63 lb)</td>
</tr>
</tbody>
</table>
Table 3. Technical specifications (continued)

<table>
<thead>
<tr>
<th>Technical Specifications (continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Environmental</strong></td>
</tr>
<tr>
<td>• Operating temperature: 32° to 140°F (0° to 40°C)</td>
</tr>
<tr>
<td>• Operating humidity: 90% maximum relative humidity, noncondensing</td>
</tr>
<tr>
<td>• Electromagnetic emissions: Meets requirements of FCC Part 15 Class B.</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
</tr>
<tr>
<td>• 10BASE-T, 100BASE-TX, RJ-45</td>
</tr>
<tr>
<td>• 802.11n, 802.11g, 802.11b</td>
</tr>
</tbody>
</table>