NETGEAR[®]

AC1200 WiFi Range Extender

Model EX6200

User Manual



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350 East Plumeria Drive San Jose, CA 95134 USA



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

This user manual is for the NETGEAR® AC1200 WiFi Range Extender, model EX6200, which is referred to as *the extender*.

This chapter covers the following topics:

- Unpack Your Extender
- Top Panel LEDs and Front Panel USB Port
- Rear Panel Ports, Buttons, Antennas, and Connector
- Attach the Stand
- Attach the Rubber Feet
- When to Use Your Extender
- How the Extender Works
- Support for the 801.11ac Networking Standard

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

Note: Firmware updates with new features and bug fixes are made available from time to time on *downloadcenter.netgear.com*. Some products can regularly check the site and download new firmware, or you can check for and download new firmware manually. If the features or behavior of your product does not match what is described in this guide, you might need to update your firmware.

Note: In this manual, the terms *wireless* and *WiFi* are interchangeable.

Unpack Your Extender

Your box contains the following items:

- AC1200 WiFi Range Extender
- Power adapter
- Snap-on stand
- Four rubber feet
- Installation guide
- Do More booklet

Top Panel LEDs and Front Panel USB Port

Use the LEDs during installation to find the best location for the extender or to monitor the extender performance. The following figure shows the extender in upright position, with the stand attached. (For information about attaching the stand, see *Attach the Stand* on page 10.)

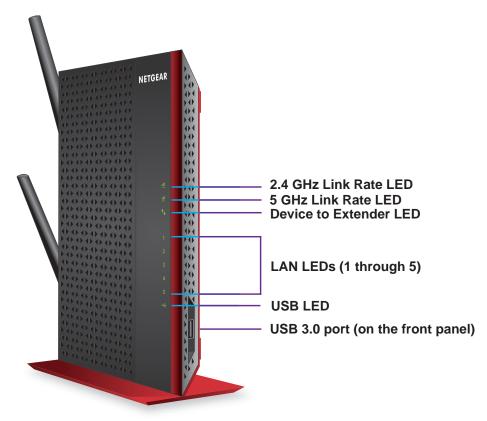


Figure 1. Top panel LEDs and front panel USB port

The following table describes the LEDs.

Table 1. Front panel LEDs

LED		Description
	2.4GHz	Green . The 2.4 GHz WiFi connection between the extender and the WiFi router is optimum.
		Note: If you press the WPS button on the rear panel of the extender, the LED blinks green for two minutes.
2.4 GHz Link Rate LED	2.4GHz	Amber . The 2.4 GHz WiFi connection between the extender and the WiFi router is good.
		Note: This LED also lights amber during the startup process of the extender. After about one minute, the LED lights green or turns off, depending on the WiFi connection between the extender and the WiFi network.
	Red . The 2.4 GHz WiFi connection between the extender and the WiFi router is poor.	
		Off. The extender and the WiFi router do not have a 2.4 GHz WiFi connection.
	5GHz	Green . The 5 GHz WiFi connection between the extender and the WiFi router is optimum.
5 GHz Link Rate LED		Note: If you press the WPS button on the rear panel of the extender, the LED blinks green for two minutes.
		Amber. The 5 GHz WiFi connection between the extender and the WiFi router is good.
		Note: This LED also lights amber during the startup process of the extender. After about one minute, the LED lights green or turns off, depending on the WiFi connection between the extender and the WiFi network.
		Red . The 5 GHz WiFi connection between the extender and the WiFi router is poor.
		Off. The extender and the WiFi router do not have a 5 GHz WiFi connection.
LAN LEDs (1 through 5)	1	Green. An Ethernet device is connected to the LAN port.
		Off. No Ethernet device is connected to the LAN port.
Device to Extender	+↓	Green. The extender is connected to a computer or WiFi device.
LED		Note: If you press the WPS button on the rear panel of the extender, the LED blinks green for two minutes.
		Amber. The extender is starting or is applying WiFi settings. After about one minute, the LED turns green.
		During the startup process, both Link Rate LEDs also light amber. After about one minute, these LED light green or turn off, depending on the WiFi connection between the extender and the WiFi network.
		Note: The Device to Extender LED blinks amber during a firmware update.
		Off. The extender is not connected to a computer or WiFi device.

LED		Description
USB LED	4	Solid Green. A USB device is connected to the USB port.
		Off. No USB device is connected to the USB port.

Rear Panel Ports, Buttons, Antennas, and Connector

The following figure shows the ports, buttons, antennas, and connector on the rear panel of the extender.

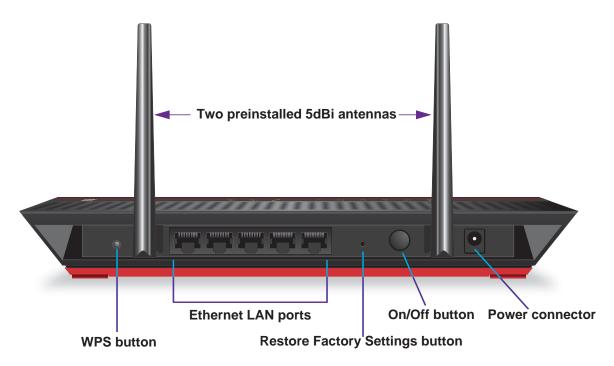


Figure 2. Rear panel

The antennas are preinstalled. In the unlikely situation that an antenna has loosened, you must tighten it. (A loose antenna could affect the performance of the extender.)

> To tighten an antenna:

- 1. Straighten the antenna.
- 2. Turn the antenna clockwise until tightened.



After you have tightened the antenna, you can change its position.

Attach the Stand

If you prefer to place the extender in upright (vertical) position, attach the stand that comes with the extender.

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



Figure 3. Attaching the stand

> To attach the stand:

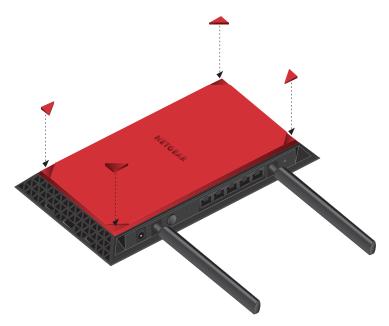
- 1. Place the stand on a flat surface.
- 2. Hold the extender in upright position with the left side of the enclosure pointing down. (The left side has three rectangular openings.)

The top panel of the enclosure and the three vertical support posts of the stand must face the same direction.

3. Lower the extender onto the stand until the support posts of the stand snap into the rectangular openings of the enclosure.

Attach the Rubber Feet

If you prefer to place the extender in horizontal position, you can attach the rubber feet that come with the extender.





- > To attach the rubber feet:
 - 1. Place the extender upside down, with the red panel facing you. (The red panel is the bottom.)
 - 2. In each corner, attach a rubber foot in such a way that it covers the triangle.

When to Use Your Extender

NETGEAR recommends that you connect to the extender only when your existing home network connection is poor. Data traffic routed through the extender is inherently slower than traffic routed directly from the network.

NETGEAR recommends 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.

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 has two main jobs:

• The extender connects to a WiFi network that is up and running.

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

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

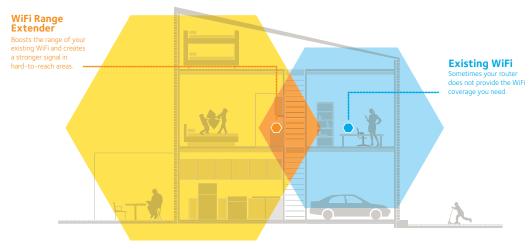


Figure 5. Range extender in a home

Support for the 801.11ac 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 *http://www.netgear.com/landing/80211ac/*.

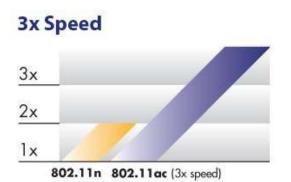


Figure 6. Speed comparison between the 802.11n and 802.11ac standards

Get Started

This chapter covers the following topics:

- How to Position the Extender
- Connect the Extender to Your WiFi Router
- Connect the Extender with WPS to a WiFi Network
- Access the Extender over WiFi and Use Smart Setup
- Access the Extender over Ethernet and Use Smart Setup

How to Position the Extender

The ideal location to place the extender is halfway between your WiFi router and your WiFi device.



Figure 7. Range extender location

The best connection is established with a clear line of sight between the extender and the WiFi router and a clear line of sight between the extender and the WiFi device that you are using. If a thick wall or other materials block this straight path, move the extender to a different location halfway between the WiFi device and the WiFi router.

Depending on the location that you decide on, either place the extender horizontally or attach the stand and place the extender vertically. Although the extender functions well in either horizontal or vertical position, a horizontal position might give a better performance.

When you make the initial connection between the extender and the WiFi router, place the extender close to the WiFi router. After you have established a connection between the extender and the WiFi router, move the extender to the location where you intend to use it. (You might need to unplug the extender, plug it in again at its new location, and restart it.) Use the Link Rate LEDs on the extender to choose the location where the connection between the extender and the WiFi router and the WiFi router is optimal. These steps are described in detail in the sections that describe how to connect the extender to a WiFi network.

Connect the Extender to Your WiFi Router

To connect the extender to your WiFi router and find the best location for the extender, use *one* of the following methods:

- **WPS**. Use the extender's WPS button to establish a WiFi connection between the extender and the WiFi router (see *Connect the Extender with WPS to a WiFi Network*). Use this method if your WiFi router supports Wi-Fi Protected Setup (WPS).
- WiFi. Use a computer or WiFi device to join the extender's default WiFi network, then launch a web browser to set up the connection between the extender and a WiFi network (see Access the Extender over WiFi and Use Smart Setup). Use this method if your WiFi router does not support WPS.
- **Ethernet**. Use an Ethernet cable to connect a computer to the extender, then launch a web browser to set up the connection between the extender and a WiFi network (see *Access the Extender over Ethernet and Use Smart Setup*). Use this method if you have difficulty establishing a WiFi connection to the extender.

Connect the Extender with WPS to a WiFi Network

The easiest way to connect the extender to a WiFi network is by using Wi-Fi Protected Setup (WPS). For this method to be successful, your WiFi router must support WPS.

If your WiFi router does not support WPS, see one of the following sections:

- Access the Extender over WiFi and Use Smart Setup on page 18
- Access the Extender over Ethernet and Use Smart Setup on page 26

WPS lets you join a secure WiFi network without typing the network name and password. The WPS button is a physical button on the rear panel of the extender. Your WiFi router might have a physical WPS button, a software WPS button, or both.

WPS does not support WEP network security. If you are using WEP security, follow the instructions in Access the Extender over WiFi and Use Smart Setup on page 18.

> To connect the extender with WPS to a WiFi router and find the best location for the extender:

1. Place the extender close to the WiFi router.

Note: In a later step in this procedure, after you have established a connection to the WiFi router, you can place the extender at its permanent location.

- 2. Plug the extender into an electrical outlet.
- 3. If necessary, press the Power button.

The Device to Extender LED and the two Link Rate LEDs light amber during the startup process. After about one minute, these LEDs turn off.

You are now ready to connect the extender to your WiFi router.

4. Press the WPS button on the rear panel of the extender.

Both Link Rate LEDs $\frac{1}{2.4 \text{ GHz}}$ and the Device to Extender LED \uparrow blink green for two minutes.

5. Within two minutes, press the **WPS** button on your WiFi router.

After a few seconds, the extender connects to your existing WiFi network. Because you placed the extender close to the WiFi router, the 2.4 GHz Link Rate LED on the extender lights green, indicating a good connection between the WiFi router and the extender.

If the 2.4 GHz Link Rate LED does not light green, try *Step 4* and *Step 5* again. If it still does not light green, see *Access the Extender over WiFi and Use Smart Setup*.

- 6. If your WiFi router supports the 5 GHz band (not all routers do), and you want to extend that band, repeat *Step 4* and *Step 5* and check that the 5 GHz Link Rate LED lights green to confirm the connection.
- 7. Now that the extender is connected to the WiFi router, move it to a location where you can boost your WiFi range.

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

8. Plug the extender into an electrical outlet at the new location and restart the extender.

Unless the extender is outside the range of your WiFi router, the extender connects automatically to the WiFi router.

The Link Rate LEDs help you choose a spot where the extender-to-router connection is optimal. The following tables describe how the LEDs show the quality of the connection.

2.4 GHz LED Status	LED Color	Performance
Both the Link Rate LED and the Device to Extender LED are green.	2.4GHz and	The extender provides the best performance.
The Link Rate LED is amber and the Device to Extender LED is green.	2.4GHz and	The extender provides a workable performance.
The Link Rate LED is red.	2.4GHz	The extender provides a poor performance.
The Link Rate LED is off.		The extender cannot function.

5 GHz LED Status	LED Color	Performance
Both the Link Rate LED and the Device to Extender LED are green.	JII and T	The extender provides the best performance.
The Link Rate LED is amber and the Device to Extender LED is green.	sGHz and	The extender provides a workable performance.
The Link Rate LED is red.	5GHz	The extender provides a poor performance.
The Link Rate LED is off.		The extender cannot function.

If the Link Rate LED is off, the extender cannot connect to the WiFi router. If the Link Rate LED is red, the extender has a poor connection to the WiFi router.

- If the extender has no connection or a poor connection, move the extender closer to your WiFi router and try again until the 2.4 GHz or 5 GHz Link Rate LED is green, or at least amber.
- **10.** Use a WiFi network manager on the computer or mobile device to connect to the extender's newly created WiFi network.

By default, the extender adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name, for example:

- Existing network name. MyNetworkName
- New extended 2.4 GHz network name. MyNetworkName_2GEXT
- New extended 5 GHz network name. MyNetworkName_5GEXT
- 11. Select the new network and use your WiFi router password to connect.

You are now using your extended WiFi network.

Note: If your computer or mobile device cannot join the new WiFi network of the extender, see *Improve the Connection Between the Extender and the WiFi Router* on page 116.

Access the Extender over WiFi and Use Smart Setup

If your WiFi router does not support WPS, access the extender over WiFi and use the browser-based NETGEAR genie[®] Smart Setup to connect the extender to an existing WiFi network.

The extender has a default NETGEAR_EXT WiFi network name (SSID) in the 2.4 GHz band so you can access it over WiFi. After you have used Smart Setup to connect the extender to an existing WiFi network, the extender changes its default NETGEAR_EXT network name to the name of the existing WiFi network and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name, for example:

- Existing network name. MyNetworkName
- New extended 2.4 GHz network name. MyNetworkName_2GEXT
- New extended 5 GHz network name. MyNetworkName_5GEXT
- To access the extender over WiFi and use Smart Setup to connect the extender to an existing WiFi network:
 - 1. Place the extender close to the WiFi router.

Note: In a later step in this procedure, after you have established a connection to the WiFi router, you can place the extender at its permanent location.

- 2. Plug the extender into an electrical outlet.
- 3. If necessary, press the **Power** button.

The Device to Extender LED and the two Link Rate LEDs light amber during the startup process. After about one minute, these LEDs turn off.

4. Make sure that your computer or mobile device is not connected to an Ethernet network.

If the computer or mobile device is already connected to an Ethernet network, you might not be able to connect to the extender.

5. Open a WiFi network manager on your computer or mobile device to find and connect to the default NETGEAR_EXT WiFi network of the extender.

You can use any WiFi network utility on a computer, tablet, or smartphone to find and connect to the NETGEAR_EXT WiFi network of the extender. The following figure shows an example of a WiFi network utility.



After the connection with the computer or mobile device is established, the Device to Extender LED \uparrow_1 lights solid green.

6. Open a web browser window from the same computer or mobile device.

The browser takes you directly to the NETGEAR genie Smart Setup start screen.

Note: If you are not automatically directed to the NETGEAR genie Smart Setup start screen, go to **www.mywifiext.net**, and enter **admin** for the user name and **password** for the password.



Smart Setup searches for existing WiFi networks automatically and displays the networks in the 2.4 GHz band.

C1200 WiFi Range E	ctender					
Extender-to-Router		he 2.4GHz WiFi network you would like tender supports dual band WiFi. If you v		5GHz only	click the Sk	ip buttor
Device-to-Extender			6		Refresh	Continu
Apply Settings	00	SSID SimplePresenceNetwork Manually input my wireless SSID	Channel 6	Signal 47%	Secur WPAWPA	

7. Select a 2.4 GHz WiFi network to extend, and click the Continue button.

NETGEAR		
AC1200 WiFi Range Ex	tender Enter the security password for your selected WiFi network.	
Device-to-Extender Apply Settings	Your existing network in 2.46Hz: Name (SSID): SimplePresenceNetwork Security: WPA2-PSK (AES] Password (network key): Back Continue	

- 8. Enter the security settings for the existing 2.4 GHz network:
 - If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - a. In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
 - If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).
 - b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
 - c. Next to the selected radio button, enter the network WEP key.
 - d. Click the Continue button.

If Smart Setup detects any networks in the 5 GHz band, it displays them.

Extender-to-Router	Select t	he 5GHz WiFi network you would like to extend.			
Device-to-Extender		der supports dual band WiFi. ter does not support 5GHz band, click the Skip button.	e	Skip	Refresh Continue
Apply Settings		SSID	Channel	Signal	Security
	0	My router does not support 5GHz band. Set it up later			
	000	SimplePresenceNetwork Manually input my wireless SSID	149	21%	WPAWPA2-PSK

- 9. Select a 5 GHz WiFi network to extend, and click the **Continue** button.
 - **Note:** If your router does not support the 5 GHz band (not all routers do) or you want to set up the 5 GHz extender network later, click the **Skip** button, and go to *Step 11* on page 22.

NETGEAR [®] AC1200 WiFi Range Ex		
Extender-to-Router Device-to-Extender Apply Settings	Enter the security password for your selected WiFi network. Your existing network in 5GHz: Name (SSID): Security: WPA2-PSK [AES] Password (network key): Back	

- **10.** Enter the security settings for the existing 5 GHz network:
 - If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - **a.** In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
 - If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).

- b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
- c. Next to the selected radio button, enter the network WEP key.
- d. Click the **Continue** button.

Smart Setup displays the network names and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name.

NETGEAR	genie		
AC1200 WiFi Range Ex	ktender		
Extender-to-Router	Enter name and secur	ity settings for your extended WiFi network.	
Apply Settings	Name (2.4G SSID)	SimplePresenceNetw_2GEXT	
	Name (5G SSID) Use the same security mo Back Contir	SimplePresenceNetw_5GEXT de and password as those for the existing network.	

- 11. Use the default extension names, or, in the Name (2.4GHz SSID) field, and, if you have set up a 5 GHz network, in the Name (5GHz SSID) field, enter new network names for your extender WiFi networks, and click the Continue button.
 - **Note:** If you do not want to use the same security modes for your extender networks as you use for your existing networks, clear the check box before you click the **Continue** button. You then can configure the security settings for the extender networks. However, you can also change the security settings later.

The extender applies the settings.

genie	
tender	
Applying your settings. This may take up to a minute.	
Shi a	
	Applying your settings. This may take up to a minute.

12. Wait a couple of minutes while the extender creates the WiFi networks.

When the extender is ready, Smart Setup summarizes the extender networks.

NETGEAR	genie			
AC1200 WiFi Range Ex	ktender			
Extender-to-Router	Follow the instru	ctions below to connect you devices to the	e extended network.	
Device-to-Extender	2.4GHz Extender Netwo	ork	5GHz Extender Network	
Apply Settings	Name (SSID): SimplePresenceNetw_2GEXT Security: WPAWPA2-PSK		Name (SSID): SimplePresenceNetw_5GEXT Security: WPAWPA2-PSK	
	Password (network key): 5305305306		Password (network key): 5305305306	
		ke a laptop, tablet, smart TV, etc. to your extended network. ended network. (Show image here)	For example, on your laptop you may use the Windows WiFi manager to	
	PP* Wireless Network Connec	tion		
	Network Tasks	Choose a wireless network Obt on tem in the lst below is carnect to a wreless network in range or to get more information.		
	Sot up a wreless network for a home or small office	((p)) NETGEAR_EXT Unsecured wireless network. still		
	Once you have conr	ected your devices, mark the checkbox and click the Contir	ue button.	

- **13.** Use a WiFi network manager on the computer or mobile device to connect to the extender's newly created 2.4 GHz or 5 GHz WiFi network.
 - **Note:** Unless you entered a new network name in *Step 11*, the extender changes its default NETGEAR_EXT network name to the name of the WiFi network to which you connected the extender and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name.
 - **Note:** If your computer or mobile device cannot join the new WiFi network of the extender, see *Improve the Connection Between the Extender and the WiFi Router* on page 116.
- 14. Select the My wireless devices are connected to the Extender network check box, and click the Continue button.

Smart Setup describes the color of the Link Rate LED on the front of the extender. Because you placed the extender close the WiFi router, the Link Rate LED is green.

NETGEAR	genie [.]	
AC1200 WiFi Range Ext	ender	
Extender-to-Router Device-to-Extender Apply Settings	Your extender has successfully connected to your existing WIFI network. The link rate LED is green, indicating that the Extender is connecting to the existing network at best speed. Finish	

15. Click the Finish button.

A pop-up screen displays.

- **16.** To bookmark the URL of the extender, click the **OK** button.
- 17. If you are prompted to enter a user name and password, type **admin** for the user name and **password** for the password.

The NETGEAR registration screen displays. You are now online.

18. To register the extender, enter your information in the fields onscreen, and click the **Register** button.

A message displays, congratulating you that you have extended your network.

- 19. Close your browser.
- 20. Now that the extender is connected to the WiFi router and you can connect a computer or mobile device to the extender's WiFi network, move it to a location where you can boost your WiFi range.

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

21. Plug the extender into an electrical outlet at the new location and restart the extender.

Unless the extender is outside the range of your WiFi router, the extender connects automatically to the WiFi router.

The Link Rate LEDs help you choose a spot where the extender-to-router connection is optimal. The following tables describe how the LEDs show the quality of the connection.

2.4 GHz LED Status	LED Color	Performance
Both the Link Rate LED and the Device to Extender LED are green.	2.4GHz and	The extender provides the best performance.
The Link Rate LED is amber and the Device to Extender LED is green.	2.4GHz and	The extender provides a workable performance.
The Link Rate LED is red.	2.4GHz	The extender provides a poor performance.
The Link Rate LED is off.		The extender cannot function.

5 GHz LED Status	LED Color	Performance
Both the Link Rate LED and the Device to Extender LED are green.	JII and T	The extender provides the best performance.
The Link Rate LED is amber and the Device to Extender LED is green.	sGHz and	The extender provides a workable performance.
The Link Rate LED is red.	5GHz	The extender provides a poor performance.
The Link Rate LED is off.		The extender cannot function.

If the Link Rate LED is off, the extender cannot connect to the WiFi router. If the Link Rate LED is red, the extender has a poor connection to the WiFi router.

- 22. If the extender has no connection or a poor connection, move the extender closer to your WiFi router and try again until the 2.4 GHz or 5 GHz Link Rate LED is green, or at least amber.
- **23.** Use a WiFi network manager on the computer or mobile device to reconnect to the extender's WiFi network.
 - **Note:** Unless you entered a new network name in *Step 11*, the extender changes its default NETGEAR_EXT network name to the name of the WiFi network to which you connected the extender and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name.
- 24. Select the new network and use your WiFi router password to connect.

You are now using your extended WiFi network.

Access the Extender over Ethernet and Use Smart Setup

If your WiFi router does not support WPS, you can use an Ethernet cable to connect your computer to one of the LAN ports of the extender. Then use the browser-based NETGEAR genie Smart Setup to connect the extender to an existing WiFi network.

After you have used Smart Setup to connect the extender to an existing WiFi network, the extender changes its default NETGEAR_EXT WiFi network name (SSID) in the 2.4 GHz band to the name of the existing WiFi network and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name, for example:

- Existing network name. MyNetworkName
- New extended 2.4 GHz network name. MyNetworkName_2GEXT
- New extended 5 GHz network name. MyNetworkName_5GEXT

Note: After you have set up the extender, you can also connect Ethernet-enabled devices such as gaming consoles and printers to the Ethernet LAN ports of the extender. For more information, see *Connect Ethernet-Enabled Devices* on page 72.

To access the extender from a computer over Ethernet and use Smart Setup to connect the extender to an existing WiFi network:

1. Place the extender close to the WiFi router.

Note: In a later step in this procedure, after you have established a connection to the WiFi router, you can place the extender at its permanent location.

- 2. Plug the extender into an electrical outlet.
- 3. If necessary, press the **Power** button.

The Device to Extender LED and the two Link Rate LEDs light amber during the startup process. After about one minute, these LEDs turn off.

4. Make sure that your computer is not connected to a WiFi network or Ethernet network.

If the computer is already connected to a WiFi network or Ethernet network, you might not be able to connect to the extender.

5. Connect your computer to the extender with an Ethernet cable.

You can use any of the five Ethernet LAN ports of the extender.





CAUTION:

Do not use an Ethernet cable to connect the extender to a WiFi router. If you do so, the extender does not work because it is designed to use only a WiFi connection to a WiFi router.

- 6. If you have trouble connecting, try the following:
 - Wait a couple of minutes.

If you start your computer, connect the Ethernet cable to the extender, and launch your browser quickly, the computer might still need a couple of minutes to recognize the Ethernet LAN connection before you can connect.

• Make sure that your Ethernet cable is securely connected to the extender and the computer, and that the extender Device to Extender Connection LED lights.

If the LED is not lit, reconnect the Ethernet cable, and relaunch your Internet browser.

7. Open a web browser window from the same computer.

The browser takes you directly to the NETGEAR genie Smart Setup start screen.

Note: If you are not automatically directed to the NETGEAR genie Smart Setup start screen, go to **www.mywifiext.net**, and enter **admin** for the user name and **password** for the password.

NETGEAR AC1200 WiFi Range Ex		
Extender-to-Router Device-to-Extender Apply Settings	Smart setup is searching for existing WiFi networks. This may take up to a minute.	

Smart Setup searches for existing WiFi networks automatically and displays the networks in the 2.4 GHz band.

genie					
				nly, click the Refresh	Skip button
	SSID SimplePresenceNetwork	Channel 6	Signal	Se	curity VPA2-PSK
00	SSID SimplePresenceNetwork Manually input my wireless SSID	Channel 6	I MINE INC.	Se	1
	Select ti Your ex	Select the 2.4GHz WiFi network you would like to Your extender supports dual band WiFi. If you w SSID O SimplePresenceNetwork	Select the 2.4GHz WiFi network you would like to extend. Your extender supports dual band WiFi. If you want to connect to SSID Channel SimplePresenceNetwork 6	Select the 2.4GHz WiFi network you would like to extend. Your extender supports dual band WiFi. If you want to connect to 5GHz or SSID Channel Signal SimplePresenceNetwork 6 47%	Select the 2.4GHz WiFi network you would like to extend. Your extender supports dual band WiFi. If you want to connect to 5GHz only, click the second seco

8. Select a 2.4 GHz WiFi network to extend, and click the **Continue** button.

NETGEAR		
Extender-to-Router Device-to-Extender Apply Settings	Enter the security password for your selected WiFi network. Your existing network in 2.4GHz: Name (SSID): SimplePresenceNetwork Security: WPA2-PSK (AES) Password (network key):	

- 9. Enter the security settings for the existing 2.4 GHz network:
 - If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - **a.** In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
 - If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).
 - b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
 - c. Next to the selected radio button, enter the network WEP key.
 - d. Click the **Continue** button.

If Smart Setup detects any networks in the 5 GHz band, it displays them.

NETGEAR						
Extender-to-Router Device-to-Extender	Your exten	ne 5GHz WIFi network you would like to extend. der supports dual band WIFI. er does not support 5GHz band, click the Skip button.	C 1	Skip (Refresh	Continue
Apply Settings		SSID		Signal	Security	
	0	My router does not support 5GHz band. Set it up later				
	0	SimplePresenceNetwork Manually input my wireless SSID	149	21%	WPANVP	A2-PSK

- **10.** Select a 5 GHz WiFi network to extend, and click the **Continue** button.
 - **Note:** If your router does not support the 5 GHz band (not all routers do) or you want to set up the 5 GHz extender network later, click the **Skip** button, and go to *Step 12* on page 31.

NETGEAR AC1200 WiFi Range E	
Extender-to-Router	Enter the security password for your selected WiFi network.
Device-to-Extender	Your existing network in 5GHz:
Apply Settings	Name (SSID): Security: WPA2-PSK [AES] Password (network key):

- 11. Enter the security settings for the existing 5 GHz network:
 - If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - **a.** In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
 - If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).
 - b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
 - c. Next to the selected radio button, enter the network WEP key.
 - d. Click the **Continue** button.

Smart Setup displays the network names and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name.

Extender-to-Router Enter name and security settings for your extended WiFi network. Device-to-Extender Name (2.46 SSID) Apply Settings SimplePresenceNetw_2GEXT Name (60 SSID) SimplePresenceNetw_5GEXT I Use the same security mode and password as those for the existing network. Back Continue	NETGEAR	genie		
Device-to-Extender Name (2.4G SSID) SimplePresenceNetw_2GEXT Apply Settings Name (5G SSID) SimplePresenceNetw_5GEXT Image: Use the same security mode and password as those for the existing network. Image: Use the same security mode and password as those for the existing network.	AC1200 WiFi Range E	xtender		
Apply Settings Name (2.46 SSID) SimplePresenceNetw_2GEXT Name (56 SSID) SimplePresenceNetw_5GEXT Image: Use the same security mode and password as those for the existing network.	Extender-to-Router	Enter name and secur	ity settings for your extended WiFi network.	
Use the same security mode and password as those for the existing network.	ter enter enter			
Back Continue				
		Back Contin	nue	

- 12. Use the default extension names, or, in the Name (2.4GHz SSID) field, and, if you have set up a 5 GHz network, in the Name (5GHz SSID) field, enter new network names for your extender WiFi networks, and click the Continue button.
 - **Note:** If you do not want to use the same security modes for your extender networks as you use for your existing networks, clear the check box before you click the **Continue** button. You then can configure the security settings for the extender networks. However, you can also change the security settings later.

The extender applies the settings.

NETGEAR	genie [.]	
AC1200 WiFi Range Ex	ctender	
Extender-to-Router	Applying your settings. This may take up to a minute.	
Device-to-Extender		
Apply Settings	3 ¹¹ /2	
- F2		

13. Wait a couple of minutes while the extender creates the WiFi networks.

When the extender is ready, Smart Setup summarizes the extender networks.

NETGEAR	genie [.]	
AC1200 WiFi Range Ex	tender	
Extender-to-Router	Follow the instructions below to connect you	devices to the extended network.
Device-to-Extender	2.4GHz Extender Network	5GHz Extender Network
Apply Settings	Name (SSID): SimplePresenceNetw_2GEXT Security: WPAWPA2-PSK	Name (SSID): SimplePresenceNetw_6GEXT Security: WPAWPA2-PSK
	Password (network key): 5305305306	Password (network key): 5305305306
	Connect your devices like a laptop, tablet, smart TV, etc. to your e connect to the newly extended network. (Show image here)	extended network. For example, on your laptop you may use the Windows WiFi manager to
	Pre Wireless Network Connection	
	Network Tasks Choose a wireless network Image: Solido national disc. Clais name in the list below to correct to a wireless network information. Image: Solido national disc. Clais name in the list below to correct to a wireless network. Image: Solido national disc. Clais name in the list below to correct to a wireless network. Image: Solido national disc. Clais name in the list below to correct to a wireless network. Image: Solido national disc. Clais name in the list below to correct to a wireless network.	ter range or to get more
	Once you have connected your devices, mark the checkbox a	and click the Continue button.

14. Use a WiFi network manager on the computer or mobile device to connect to the extender's newly created 2.4 GHz or 5 GHz WiFi network.

- **Note:** Unless you entered a new network name in *Step 12*, the extender changes its default NETGEAR_EXT network name to the name of the WiFi network to which you connected the extender and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name.
- **Note:** If your computer or mobile device cannot join the new WiFi network of the extender, see *Improve the Connection Between the Extender and the WiFi Router* on page 116.
- **15.** Select the **My wireless devices are connected to the Extender network** check box, and click the **Continue** button.

Smart Setup describes the color of the Link Rate LED on the front of the extender. Because you placed the extender close the WiFi router, the Link Rate LED is green.

NETGEAR'	genie	
AC1200 WiFi Range Ext	tender	
Extender-to-Router	Your extender has successfully connected to your existing WIFI network. The link rate LED is green, indicating that the Extender is connecting to the existing network at best speed.	
Device-to-Extender	Finish	
Apply Settings		

16. Click the Finish button.

A pop-up screen displays.

- **17.** To bookmark the URL of the extender, click the **OK** button.
- **18.** If you are prompted to enter a user name and password, type **admin** for the user name and **password** for the password.

The NETGEAR registration screen displays. You are now online.

19. To register the extender, enter your information in the fields onscreen, and click the **Register** button.

A message displays, congratulating you that you have extended your network.

- 20. Close your browser.
- **21.** Disconnect the Ethernet cable from the computer and the extender.
- 22. Now that the extender is connected to the WiFi router and you can connect a computer or mobile device to the extender's WiFi network, move it to a location where you can boost your WiFi range.

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

23. Plug the extender into an electrical outlet at the new location and restart the extender.

Unless the extender is outside the range of your WiFi router, the extender connects automatically to the WiFi router.

The Link Rate LEDs help you choose a spot where the extender-to-router connection is optimal. The following tables describe how the LEDs show the quality of the connection.

2.4 GHz LED Status	LED Color	Performance
Both the Link Rate LED and the Device to Extender LED are green.	2.4GHz and	The extender provides the best performance.
The Link Rate LED is amber and the Device to Extender LED is green.	2.4GHz and	The extender provides a workable performance.
The Link Rate LED is red.	2.4GHz	The extender provides a poor performance.
The Link Rate LED is off.		The extender cannot function.

5 GHz LED Status	LED Color	Performance
Both the Link Rate LED and the Device to Extender LED are green.	JII and T	The extender provides the best performance.
The Link Rate LED is amber and the Device to Extender LED is green.	sGHz and	The extender provides a workable performance.
The Link Rate LED is red.	5GHz	The extender provides a poor performance.
The Link Rate LED is off.		The extender cannot function.

If the Link Rate LED is off, the extender cannot connect to the WiFi router. If the Link Rate LED is red, the extender has a poor connection to the WiFi router.

- 24. If the extender has no connection or a poor connection, move the extender closer to your WiFi router and try again until the 2.4 GHz or 5 GHz Link Rate LED is green, or at least amber.
- **25.** Use a WiFi network manager on the computer or mobile device to reconnect to the extender's WiFi network.
 - **Note:** Unless you entered a new network name in *Step 12*, the extender changes its default NETGEAR_EXT network name to the name of the WiFi network to which you connected the extender and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name.
- 26. Select the new network and use your WiFi router password to connect.

You are now using your extended WiFi network.

Manage the Extender Network and Security Settings

This chapter covers the following topics:

- Log In to the Extender After Initial Setup
- Change the Password
- Set Up Password Recovery
- Connect the Extender to a WiFi Network Without Using Smart Setup
- Connect the Extender to a Hidden WiFi Network
- Use WPS to Add a Computer to the Extender's WiFi Network
- Manage the Extender WiFi Settings
- Change the Extender IP Address and Device Name
- Manage Advanced WiFi and WPS Settings
- Manage a WiFi Access List
- Set the Operating Mode to FastLane Technology
- Run Smart Setup Again After Initial Setup
- Connect Ethernet-Enabled Devices

Log In to the Extender After Initial Setup

You can log in to the extender to view or change the extender's settings.

If you connect to the extender before it has been set up, the browser automatically goes to http://www.mywifiext.net and displays the NETGEAR genie Smart Setup screens, which step you through the setup process. For more information, see *Access the Extender over WiFi and Use Smart Setup* on page 18 or *Access the Extender over Ethernet and Use Smart Setup* on page 26.

> To log in to the extender after initial setup:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and password for the password.

Note: NETGEAR recommends that you set a more secure password after you log in. For more information, see *Change the Password* on page 37.

The Status screen displays (see the following figure). Menu selections display on the left. The Status screen shows the current settings for the extender. The firmware version displays below the language menu.

For more information about the Status screen, see *View the Status and Traffic Statistics of the Extender* on page 79.

For information about upgrading firmware, see Update the Firmware on page 78.

4. To change your language, select a language from the menu in the top right of the screen.

By default, the language selection is **Auto**, which means that the extender uses the language that it detects from the browser that you use.

BAVES Cliont Box devices Version EV8200 Settings USB Storage USB Storage Maintenance GUL anguage Version V1.0.0.32, 2.1.301 Anvanced SimplePresenceNetwork Lake Maintenance SimplePresenceNetwork Lake Anvanced SimplePresenceNetwork Lake Connection Status to Existing Network (2.6012) Name (SSD) SimplePresenceNetwork Name (SSD) SimplePresenceNetwork Existing Network (2.6012) MaC Address C4.0415.00.50.514 P Address 192.188.100.1 Device Cleared On Existing Network (2.4012) Existing Network (2.4012) Name (SSD) SimplePresenceNetwy_20EXT Region Noth Arnenica Channel Noth Arnenica Channel Noth Arnenica Channel SimplePresenceNetwisy 56EXT Region Noth Ar	C1200 WiFi Range	Extender	Auto Cogout Firmware Version V1.0.0.35_1.1.40_wl_dt
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Region North America Channel Auto (6) Wireless mode: Up to 300Mbps Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured Extender Wireless Setting (5GHz) SimplePresenceNetw_5GEXT Region North America Channel 149(P) + 153 + 157 + 161 Wireless mode: Up to 867 Mbps Wireless AP On Broadcast Name On Wireless mode: Up to 867 Mbps Wireless AP On Broadcast Name On Wireless AP On Broadcast Name On Wireless AP On Broadcast Name On Wireless AP Configured		Extender Wireless Setting (2.4GHz)	
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Wireless mode: Up to 300Mbps Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured Extender Wireless Setting (5GHz) SimplePresenceNetw_5GEXT Name (SSID) SimplePresenceNetw_5GEXT Region North America Channel 149(P) + 153 + 157 + 161 Wireless AP On Broadcast Name On Wireless AP On Broadcast Name On Wireless AP Configured Cit Refresh Rebot		Region	North America
Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured Extender Wireless Setting (5GHz) SimplePresenceNetw_5GEXT Region North America Channel 149(P) + 153 + 157 + 161 Wireless AP On Broadcast Name On Wireless AP On Broadcast Name On Wireless AP Configured Channel On Broadcast Name On Broadcast Name Configured		Channel	Auto (6)
Broadcast Name On Wi-Fi Protected Setup Configured Extender Wireless Setting (5GHz) SimplePresenceNetw_5GEXT Region North America Channel 149(P) + 153 + 157 + 161 Wireless mode: Up to 867 Mbps Wireless AP On Broadcast Name On Wireless AP Configured Cirefresh Rebot: Show Statistics			
Wi-Fi Protected Setup Configured Extender Wireless Setting (5GHz) Name (SSID) SimplePresenceNetw_5GEXT Region North America Channel 149(P) + 153 + 157 + 161 Wireless mode: Up to 867 Mbps Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured			
Extender Wireless Setting (5GHz) Name (SSID) SimplePresenceNetw_5GEXT Region North America Channel 149(P) + 153 + 157 + 161 Wireless mode: Up to 867 Mbps Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured			
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Name (SSID) SimplePresenceNetw_5GEXT Region North America Channel 149(P) + 153 + 157 + 161 Wireless mode: Up to 867 Mbps Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured		Extender Wireless Setting (5GHz)	
Region North America Channel 149(P) + 153 + 157 + 181 Wireless mode: Up to 867 Mbps Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured			SimplePresenceNetw 5GEXT
Wireless mode: Up to 867 Mbps Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured			
Wireless mode: Up to 867 Mbps Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured			
Wireless AP On Broadcast Name On Wi-Fi Protected Setup Configured C: Refresh Reboot Show Statistics 🗸		Wireless mode:	
Broadcast Name On Wi-Fi Protected Setup Configured C Refresh Reboot Show Statistics 🗸		Wireless AP	
WI-Fi Protected Setup Configured C Refresh Reboot Show Statistics			
		C Refresh	Reboot Show Statistics
		Help Center	Show/Hide Help Center

Change the Password

The user name to access the extender is admin, and its default password is password. NETGEAR strongly recommends that you set a more secure password.

- > To change the password for the extender:
 - 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
 - 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and password for the password.

If you already changed the password and want to change it again, type your personalized password.

4. Select Maintenance > Set Password.

Smart Setup	Set Password	
Add WPS Client Settings	XCancel	Apply ►
►USB Storage	Old Password	
Maintenance	Set Password	
Status Attached Devices	Repeat New Password	
Backup Settings		
Set Password Firmware Update		
►Advanced		

- 5. Type the old password.
- 6. Type the new password twice.
- 7. Click the Apply button.

Your settings are saved.

Set Up Password Recovery

NETGEAR recommends that you enable password recovery if you change the password for the extender. Then you can recover the password if it is forgotten. This recovery process is supported in the Internet Explorer, Firefox, and Chrome browsers, but not in the Safari browser.

> To set up password recovery:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Maintenance > Set Password.

Smart Setup	Set Password	
Add WPS Client	XCancel	lppty 🕨
▶ Settings		
►USB Storage	Old Password	
★Maintenance	Set Password	
Status Attached Devices Backup Settings Set Password Firmware Update	Repeat New Password	
► Advanced)	

- 5. Select the Enable Password Recovery check box.
- 6. Select two security questions and provide answers to them.
- 7. Click the Apply button.

Your changes are saved.

Connect the Extender to a WiFi Network Without Using Smart Setup

If you want to change the extender connection to another WiFi network, you can do so without using NETGEAR genie Smart Setup.

Note: You cannot use the following procedure to change the network names or security options for your extender WiFi networks. For information about how to change these settings, see *Manage the Extender WiFi Settings* on page 48.

- To change the extender connection to another WiFi network without using Smart Setup:
 - 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
 - 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Settings > Connect to Existing Network.

The extender scans for existing WiFi networks and displays the networks in the 2.4 GHz band.

Smart Setup Add WPS Client	Detecting the wireless networks in your neighborhood.
▼ Settings	This takes approximately 1 minute.
Connect to Existing Network	
Wireless	and the second sec
IP Address	
► USB Storage	
▶ Maintenance	
► Advanced	

Smart Setup Add WPS Client		ne 2.4GHz WiFi network you would like tender supports dual band WiFi. If you v	want to connect t	to 5GHz o Skip	only, click the Skip button. Refresh Continue
• Settings	1	SSID	Channel	Signal	Security
Connect to Existing Network	00	SimplePresenceNetwork Manually input my wireless SSID	6	50%	WPAWPA2-PSK
IP Address					
►USB Storage					
► Maintenance					
► Advanced					

If your WiFi network is functioning but not on the list, your WiFi network might be hidden, or the connection between the WiFi router and the extender might be poor. For more information, see the following sections:

- Connect the Extender to a Hidden WiFi Network on page 42
- Improve the Connection Between the Extender and the WiFi Router on page 116
- 5. Select the radio button for the 2.4 GHz network to which you want to connect the extender, and click the **Continue** button.

Smart Setup	Enter the security pa	assword for your selected WiFi network.
Add WPS Client	Your existing network in 2	2 104-
▼Settings		SimplePresenceNetwork
Connect to Existing Network	Security:	WPA2-PSK
Wireless	Password (network key):	
IP Address		
►USB Storage	Back Con	ntinue
► Maintenance		
► Advanced		

- 6. Enter the security settings for the existing 2.4 GHz network:
 - If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - a. In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
 - If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).
 - b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
 - c. Next to the selected radio button, enter the network WEP key.
 - d. Click the Continue button.

If the extender detects any networks in the 5 GHz band, it displays them.

Smart Setup	Select t	he 5GHz WiFi network you would like to exte	end.			
Add WPS Client		der supports dual band WiFi. ter does not support 5GHz band, click the Skip button.				
▼Settings		60 G G	s	ikip 👔	Refresh	Continue
Connect to Existing Network		SSID	Channel	Signal	Sec	curity
<u>Wireless</u> IP Address	000	My router does not support 5GHz band. Set it up later SimplePresenceNetwork	149	27%		PA2-PSK
►USB Storage	00	Manually input my wireless SSID	143	2170	0017000	FA2-FOR
▶ Maintenance						
Advanced						

If your WiFi network is functioning but not on the list, your WiFi network might be hidden, or the connection between the WiFi router and the extender might be poor. For more information, see the following sections:

- Connect the Extender to a Hidden WiFi Network on page 42
- Improve the Connection Between the Extender and the WiFi Router on page 116
- 7. Select the radio button for the 5 GHz network to which you want to connect the extender, and click the **Continue** button.
 - **Note:** If your router does not support the 5 GHz band (not all routers do) or you do not yet want to change the 5 GHz network to which the extender connects, click the **Skip** button, and go to *Step 9* on page 70.

Smart Setup	Enter the security p	password for your selected WiFi network.
Add WPS Client • Settings Connect to Existing Network <u>Wireless</u> IP Address	Your existing network in 5 Name (SSID): Security: Password (network key):	SimplePresenceNetwork WPA2-PSK
►USB Storage ►Maintenance ►Advanced	Back Con	ntinue

- 8. Enter the security settings for the existing 5 GHz network:
 - If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - **a.** In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
 - If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).
 - b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
 - c. Next to the selected radio button, enter the network WEP key.
 - d. Click the Continue button.
- 9. Wait about two minutes while the extender changes the WiFi network or networks.

Smart Setup			vs, NETGEAR Adapter Wizard, etc) re-connect to
Add WPS Client	the Extender net	work using the information displayed belo	<i>w</i> .
▼ Settings			
Connect to Existing Network Wireless	2.4GHz Extender Netwo Name (SSID): SimpleF Security: WPAWPA2-PS	resenceNetw_2GEXT	5GHz Extender Network Name (SSID): SimplePresenceNetw_5GEXT Security: WPAWPA2-PSK
IP Address	Password (network ke): 5305305306	Password (network key): 5305305306
► USB Storage			
▶ Maintenance	"1" Wireless Network Connec		×
► Advanced	Network Tasks	Choose a wireless network Clok an item in the lat below to connect to a wireless network in range or to get more information.	-
	Set up a wireless retwork for a horw of usual office	((O)) NETGEAR_EXT Unsecured verdess network utility	8
	(I ha	we connected to the Extender network	100

- **10.** Use a WiFi network manager on the computer or on a mobile device to reconnect to the extender's WiFi network.
 - **Note:** If your computer or mobile device cannot join the new WiFi network of the extender, see *You Cannot Join a WiFi Network and Receive an Error Message* on page 115.
- 11. Click the I have connected to the Extender network button.

The WiFi network settings for the extender are saved and the Status screen displays.

Connect the Extender to a Hidden WiFi Network

You can manually connect the extender to a hidden WiFi network without using NETGEAR genie Smart Setup.

Before you start the following procedure, you must know the name of the hidden WiFi network, the type of security that the network uses, and the key or passphrase to connect to the network.

Note: You cannot use the following procedure to change the network names or security options for your extender WiFi networks. For information about how to change these settings, see *Manage the Extender WiFi Settings* on page 48.

- > To connect the extender to a hidden WiFi network without using Smart Setup:
 - 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
 - 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Settings > Connect to Existing Network.

The extender scans for existing WiFi networks and displays the networks in the 2.4 GHz band.

Smart Setup						
Add WPS Client		ing the wireless networks in your neighb	orhood.			
▼Settings	This ta	akes approximately 1 minute.				
Connect to Existing Network						
Wireless		314				
IP Address						
►USB Storage						
► Maintenance						
▶ Advanced						
Smart Setup		he 2.4GHz WiFi network you would like to e tender supports dual band WiFi. If you wan		t to 5GHz o	only, click the	Skip button.
Add WPS Client				t to 5GHz c	only, click the Refresh	Skip button.
		tender supports dual band WiFi. If you wan ssid		Skip Signal	Refresh	Continue urity
Add WPS Client		tender supports dual band WiFi. If you wan	nt to connec	Skip	Refresh	Continue urity
Add WPS Client • Settings Connect to Existing Network	Your ext	tender supports dual band WiFi. If you wan SSID SimplePresenceNetwork	nt to connec	Skip Signal	Refresh	Continue urity
Add WPS Client	Your ext	tender supports dual band WiFi. If you wan SSID SimplePresenceNetwork	nt to connec	Skip Signal	Refresh	Continue urity
Add WPS Client	Your ext	tender supports dual band WiFi. If you wan SSID SimplePresenceNetwork	nt to connec	Skip Signal	Refresh	Continue urity

5. Select the Manually input my wireless SSID radio button, and click the Continue button.

The screen adjusts.

Smart Setup	Enter your existing router's	WiFi network se	settings
Add WPS Client	Your existing network in 2.4GHz:		
▼ Settings	Name (SSID):		
Connect to Existing Network	Security:	Select	×
Wireless IP Address	coording.	Locios	
►USB Storage			
▶ Maintenance	Back Continue		
► Advanced			

- 6. In the **Name (SSID)** field, enter the name of the 2.4 GHz network to which you want to connect the extender.
- 7. From the Security menu, select the security setting for the 2.4 GHz network.

The screen adjusts.

- 8. Enter the security settings for the 2.4 GHz network:
 - If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - **a.** In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
 - If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).
 - b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
 - c. Next to the selected radio button, enter the network WEP key.
 - d. Click the Continue button.

If the extender detects any networks in the 5 GHz band, it displays them.

Add WPS Client		der supports dual band WiFi. er does not support 5GHz band, click the Skip button.			
▼ Settings		or account support out a build, ender the stap building	6	Skip 🚶	Refresh Continue
Connect to Existing Network		SSID	Channel	Signal	Security
Wireless	0	My router does not support 5GHz band.			
and the second	0	Set it up later			
IP Address	Õ	SimplePresenceNetwork	149	27%	WPAWPA2-PSK
►USB Storage	ŏ	Manually input my wireless SSID			
Maintenance					
Advanced					

9. Select the Manually input my wireless SSID radio button, and click the Continue button.

Note: If your router does not support the 5 GHz band (not all routers do) or you do not want to connect the extender to a hidden 5 GHz network, click the **Skip** button, and go to *Step 13* on page 44.

The screen adjusts.

Smart Setup	Enter your existing router's V	ViFi network s	ettings
Add WPS Client	Your existing network in 5GHz:		
Connect to Existing Network	Name (SSID):		
Wireless IP Address	Security:	Select	*
►USB Storage			
Maintenance	Back Continue		
► Advanced			

- **10.** In the **Name (SSID)** field, enter the name of the 5 GHz network to which you want to connect the extender.
- 11. From the **Security** menu, select the security setting for the 5 GHz network.

The screen adjusts.

12. Enter the security settings for the 5 GHz network:

- If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - a. In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
- If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).
 - b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
 - c. Next to the selected radio button, enter the network WEP key.
 - d. Click the Continue button.
- 13. Wait about two minutes while the extender connects to the hidden WiFi network or networks.

Smart Setup	Please use your	wireless profile manager software (Window	ws, NETGEAR Adapter Wizard, etc) re-connect to				
Add WPS Client	the Extender net	the Extender network using the information displayed below.					
Settings Connect to Existing Network <u>Wireless</u> IP Address	2.4GHz Extender Netwo Name (SSID): SimpleP Security: WPAWPA2-PS	resenceNetw_20EXT K	5GHz Extender Network Name (SSID): SimplePresenceNetw_5GEXT Security: WPAWVPA2-PSK				
USB Storage Maintenance	Password (network key		Password (network key): 6305306				
Advanced	Network Tasks	Choose a wireless network Choose a wireless network Choose a wireless network in range or to get more reformation. ((p)) *TREGAR_EXF Ubscurd writes network util					
	l ha	ve connected to the Extender network					

- **14.** Use a WiFi network manager on the computer or on a mobile device to reconnect to the extender's WiFi network.
 - **Note:** If your computer or mobile device cannot join the new WiFi network of the extender, see *You Cannot Join a WiFi Network and Receive an Error Message* on page 115.
- 15. Click the I have connected to the Extender network button.

The WiFi network settings for the extender are saved and the Status screen displays.

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

WPS (Wi-Fi 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 Push Button method, the WiFi device that you are trying to connect must have a physical push button or a software push 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 Wireless Settings screen (for more information, see *Manage the Extender WiFi Settings* on page 48).

Note: For information about using WPS to connect the extender to a WiFi network during setup, see *Connect the Extender with WPS to a WiFi Network* on page 16.

Use WPS with the Push Button Method

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 have a physical push button or a software push button.

- To let a WiFi device join the extender's WiFi network using WPS with the Push Button method:
 - 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
 - 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Add WPS Client.

The screen displays a description of the WPS method.

5. Click the Next button.

Smart Setup	Add WPS Client
Add WPS Client	
▶ Settings	Select a setup method:
►USB Storage	You can either press the Push Button physically on the Wireless Extender or press the Button below (soft Push Button).
▶ Maintenance	Tou can entrer press the Posh button physically on the whereas Extender of press the button below (soit Posh button).
► Advanced	
	O PIN Number

By default, the **Push Button (recommended)** radio button is selected.

6. Either click the rear panel of the extender.

Both Link Rate LEDs $\frac{11}{2.4 \text{ GHz}}$ and the Device to Extender LED \uparrow blink green for two minutes.

For two minutes, the extender attempts to find the WiFi device (that is, the client) that you want to join the extender's WiFi network.

- 7. Within two minutes, go to the WiFi device and press its **WPS** button (to join the extender's WiFi network without entering a password.
- To verify that the WiFi device is connected to the extender's WiFi network, select Maintenance > Attached 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 let a WiFi device join the extender's WiFi network using WPS with the PIN method:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Add WPS Client.

The screen displays a description of the WPS method.

5. Click the **Next** button.

On the screen that displays, the **Push Button (recommended)** radio button is selected by default.

6. Select the PIN Number radio button.

Smart Setup	Add WPS Client
Add WPS Client	
▶ Settings	Select a setup method:: O Push Button (recommended)
►USB Storage	PIN Number
► Maintenance	This is the security PIN of the WPS client. While connecting, WPS-enabled adapters provide a randomly-generated security PIN.
▶ Advanced	Enter Client's PIN:

- 7. In the Enter Client's PIN field, enter the PIN number of the WiFi device.
- 8. Click the Next button.

For four minutes, the extender attempts to find the WiFi device (that is, the client) that you want to join the extender's WiFi network.

Smart Setup	Connecting to New Wireless Client
Add WPS Client	XCancel
► Settings	
►USB Storage	The client's PIN is 1234.
► Maintenance	Please click the software button on the client to start the WPS process
► Advanced	

- 9. Within four minutes, go to the WiFi device and use its WPS software to join the network without entering a password.
- To verify that the WiFi device is connected to the extender's WiFi network, select Maintenance > Attached Devices.

The WiFi device displays onscreen.

Manage the Extender WiFi Settings

You can change the network name (SSID) for the extender's network and set up WiFi security. If you did not change these settings already during initial setup, the network name is NETGEAR_EXT, and the network is open (no WiFi security is set up).

Note: Although the WiFi security of the extender's network can be different from the WiFi security of the network that the extender is connected to, you typically would select the same type of WiFi security for both networks.

In some regions, not all channels are available. Do not change the channel unless you experience interference (shown by lost connections or slow data transfers). If this happens, experiment with different channels to see which is the best.

When you use more than one WiFi router or access point, it is better if adjacent routers or access points use different channels to reduce interference. NETGEAR recommends a channel spacing of four channels between adjacent routers or access points (for example, use Channels 1 and 5, or 6 and 10).

Note: You can change the channel only if you have enabled FastLane Technology. For more information, see *Set the Operating Mode to FastLane Technology* on page 65). In normal operating mode (also referred to as *Internet Surfing* mode), you cannot change the channel.

Note: You can change the wireless mode in one radio band only if the extender is connected to the WiFi router in the other radio band. For example, you can change the wireless mode in the 2.4 GHz band only if the extender is connected to the WiFi router in the 5 GHz band. If the extender is connected to the WiFi router in the 2.4 GHz band, you cannot change the wireless mode in the 2.4 GHz band because the extender adapts the wireless mode that the WiFi router functions in.

> To change the WiFi settings for the extender's network:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Setting > Wireless.

Smart Setup	Wireless				
Add WPS Client	XCancel Apply ►				
▼ Settings					
Connect to Existing Network	Region Selection				
Wireless	Region: North America				
IP Address	Ethernet ports to WiFi use the following band: 💿 2.4GHz 🔘 5GHz				
►USB Storage	My EX6200 Wireless Network (2:4GHz)				
▶ Maintenance	Name (SSID): SimplePresenceNetw_2GEXT				
► Advanced	Channel: Auto 💙				
	Wireless mode: Up to 300Mbps 💌				
	Security Options (2.4GHz)				
	O None				
	OWEP				
	O WPA-PSK [TKIP]				
	O WPA2-PSK [AES]				
	WPA-PSK [TKIP] + WPA2-PSK [AES]				
	Security Options (WPA-PSK + WPA2-PSK)				
	Password (network key): 5305305306 (8-63 characters or 64 hexdigits)				
	My EX6200 Wireless Network (5GHz)				
	Name (SSID): SimplePresenceNetw_5GEXT				
	Channel: Auto 👻				
	Wireless mode: Up to 867 Mbps 💌				
	Security Options (5GHz)				
	ONone				
	O WEP				
	O WPA-PSK [TKIP]				
	O WPA2-PSK [AES]				
	Security Options (WPA-PSK + WPA2-PSK)				
	Password (network key): 5305305306 (8-63 characters or 64 hexdigits)	2.4			

5. Change the WiFi settings as described in the following table:

Setting	Description
Region Selection	
Region	From the Region menu, select the region in which you operate the extender.
	Note: If you purchased the extender in the United States or Canada, the selection from the Region menu is North America . You cannot change this selection.
Ethernet ports to WiFi use the following band	Specify if the Gigabit Ethernet ports on the rear panel of the extender connect to the 2.4 GHz band or the 5 GHz band by selecting one of the following radio buttons:
	• 2.4GHz . The Gigabit Ethernet ports connect to the 2.4 GHz WiFi band. This is the default setting.
	• 5GHz. The Gigabit Ethernet ports connect to the 5 GHz WiFi band.

Setting	Description			
My EX6200 wireless network (2.4GHz)				
Name (SSID)	 In the Name (SSID) field, type a new name or use the name that the extender assigns by default: Existing network name. <i>MyNetworkName</i> New extended 2.4 GHz network name. <i>MyNetworkName_</i>2GEXT If more than one extender operates in your neighborhood, changing the SSID makes it easier to identify the extenders. 			
Channel	 From the Channel menu, select Auto for automatic channel selection, or select an individual channel. Note: You can change the channel only if you have enabled FastLane Technology. For more information, see Set the Operating Mode to FastLane Technology on page 65. Note: In some regions, not all channels are available. Do not change the channel unless you experience interference (shown by lost connections or slow data transfers). If this happens, experiment with different channels to see which is the best. 			
Wireless mode	 From the Wireless mode menu, select one of the following modes: Up to 54 Mbps. Legacy mode. This mode allows 802.11n, 802.11g, and 802.11b devices to join the network, but limits 802.11n devices to function at up to 54 Mbps. If your network security is WEP, you must use the Up to 54 Mbps mode. Up to 145 Mbps. Neighbor friendly mode for reduced interference with neighboring wireless networks. This mode allows 802.11n, 802.11g, and 802.11b devices to join the network, but limits 802.11n devices to function at up to 145 Mbps. This mode is the default mode in the 2.4 GHz band. Up to 300 Mbps. Performance mode. This mode allows 802.11n, 802.11g, and 802.11b devices to join the network, and allows 802.11n, 802.11g, and 802.11b devices to join the network, and allows 802.11n devices to function at up to 300 Mbps. Note: You can change the wireless mode in the 2.4 GHz band only if the extender is connected to the WiFi router in the 5 GHz band. If the extender is connected to the WiFi router in the 5 GHz band. If the extender is connected to the WiFi router in the 5 GHz band. If the extender is connected to the WiFi router in the 5 GHz band. If the extender is connected to the WiFi router in the 5 GHz band. If the extender is connected to the WiFi router in the 5 GHz band. If the extender is connected to the WiFi router in the 2.4 GHz band, the extender adapts the wireless mode that the WiFi router functions in and the Wireless mode menu is disabled. Note: WPA-PSK security supports speeds of up to 54 Mbps. Even if your devices are capable of a higher speed, WPA-PSK security limits their speed to 54 Mbps. 			

Setting	Description
Security Options (2.4G	Hz)
 None. An open WiFi WEP. WEP is an old to Up to 54 Mbps. A 128-bit encryption ar more information, se WPA-PSK [TKIP]. A Configure WPA, WF WPA2-PSK [AES]. A WPA2. Enter a passi more information, se WPA-PSK [TKIP] + WPA or WPA2, select 	security that you want to use for the extender's 2.4 GHz WiFi network: network that does not provide any security. Any WiFi device can join the network. er standard, and is less secure than WPA or WPA2. WEP limits the wireless mode WEP uses encryption keys and data encryption for data security. Select 64-bit or nd enter a key. To join the extender's WiFi network, a user must enter the key. For ee <i>Configure WEP</i> on page 54. VPA is more secure than WEP. Enter a passphrase. For more information, see <i>PA2, or WPA</i> + <i>WPA2</i> on page 53. WPA2 is even more secure than WEP, but some older WiFi devices do not detect obrase. To join the extender's WiFi network, a user must enter the passphrase. For <i>ee Configure WPA, WPA2, or WPA</i> + <i>WPA2</i> on page 53. WPA2-PASK [AES] . When your network includes WiFi devices that support either et WPA-PSK [TKIP] + WPA2-PASK [AES] security. Enter a passphrase. To join the vork, a user must enter the passphrase. For more information, see <i>Configure WPA</i> , <i>VPA2</i> .
My EX6200 wireless ne	
Name (SSID)	 In the Name (SSID) field, type a new name or use the name that the extender assigns by default: Existing network name. MyNetworkName New extended 5 GHz network name. MyNetworkName_5GEXT If more than one extender operates in your neighborhood, changing the SSID makes it easier to identify the extenders.
Channel	 From the Channel menu, select Auto for automatic channel selection, or select an individual channel. Note: You can change the channel only if you have enabled FastLane Technology. For more information, see Set the Operating Mode to FastLane Technology on page 65. Note: In some regions, not all channels are available. Do not change the channel unless you experience interference (shown by lost connections or slow data transfers). If this happens, experiment with different channels to see which is the best.

Setting	Description
Setting Wireless mode	 From the Wireless mode menu, select one of the following modes: Up to 54 Mbps. Legacy mode. This mode allows 802.11ac, 802.11an, and 802.11a devices to join the network, but limits 802.11ac and 802.11n devices to function at up to 54 Mbps. If your network security is WEP, you must use the Up to 54 Mbps. Neighbor friendly mode for reduced interference with neighboring wireless networks. This mode allows 802.11ac, 802.11an, and 802.11a devices to join the network, limits 802.11ac to function at up to 174 Mbps, and limits 802.11an devices to function at up to 174 Mbps. Performance mode for networks with many 802.11n devices. This mode has a bandwidth of 40 MHz, allows 802.11ac, 802.11an, and 802.11a devices to join the network, limits 802.11ac to function at up to 400 Mbps. Performance mode for networks with many 802.11an, and 802.11a devices to join the network, limits 802.11ac to function at up to 400 Mbps. Performance mode for networks with many 802.11an, and 802.11a devices to join the network, limits 802.11ac to function at up to 400 Mbps, and allows 802.11an devices to function at up to 300 Mbps. Up to 867 Mbps. Performance mode for networks with many 802.11ac devices. This mode has a bandwidth of 80 MHz, allows 802.11ac, 802.11an, and 802.11ac devices. This mode has a bandwidth of 80 MHz, allows 802.11ac, 802.11an, and 802.11ac devices. This mode has a bandwidth of 80 MHz, allows 802.11ac, 802.11ac, 802.11ac devices.
	and 802.11a devices to join the network, allows 802.11ac devices to function at up to 867 Mbps, and allows 802.11an devices to function at up to 300 Mbps. This mode is the default mode in the 5 GHz band.
	Note: You can change the wireless mode in the 5 GHz band only if the extender is connected to the WiFi router in the 2.4 GHz band. If the extender is connected to the WiFi router in the 5 GHz band, the extender adapts the wireless mode that the WiFi router functions in and the Wireless mode menu is disabled.
	Note: WPA-PSK security supports speeds of up to 54 Mbps. Even if your devices are capable of a higher speed, WPA-PSK security limits their speed to 54 Mbps.

Security Options (5GHz)

Select the type of WiFi security that you want to use for the extender's 5 GHz WiFi network:

- None. An open WiFi network that does not provide any security. Any WiFi device can join the network.
- WEP. WEP is an older standard, and is less secure than WPA or WPA2. WEP limits the wireless mode to **Up to 54 Mbps**. WEP uses encryption keys and data encryption for data security. Select 64-bit or 128-bit encryption and enter a key. To join the extender's WiFi network, a user must enter the key. For more information, see *Configure WEP* on page 54.
- WPA-PSK [TKIP]. WPA is more secure than WEP. Enter a passphrase. For more information, see *Configure WPA, WPA2, or WPA + WPA2* on page 53.
- WPA2-PSK [AES]. WPA2 is even more secure than WEP, but some older WiFi devices do not detect WPA2. Enter a passphrase. To join the extender's WiFi network, a user must enter the passphrase. For more information, see *Configure WPA*, *WPA2*, or *WPA* + *WPA2* on page 53.
- WPA-PSK [TKIP] + WPA2-PASK [AES]. When your network includes WiFi devices that support either WPA or WPA2, select WPA-PSK [TKIP] + WPA2-PASK [AES] security. Enter a passphrase. To join the extender's WiFi network, a user must enter the passphrase. For more information, see *Configure* WPA, WPA2, or WPA + WPA2 on page 53.



CAUTION:

If you use a WiFi device to change the extender's WiFi settings, you are disconnected when you click the **Apply** button. To reconnect, you must select the new network name that you created, and enter the passphrase or WiFi security key that you set up.

6. Click the **Apply** button.

The extender applies your settings, which might take up to one minute.

7. If you are disconnected, reconnect your WiFi device to the extender's network with its new settings.

Use a WiFi network manager on the computer or on a mobile device to reconnect to the extender's WiFi network.

- **Note:** If your computer or mobile device cannot join the new WiFi network of the extender, see *You Cannot Join a WiFi Network and Receive an Error Message* on page 115.
- 8. Click the I have connected to the Extender network button.

The WiFi network settings for the extender are saved and the Status screen displays.

Configure WPA, WPA2, or WPA + WPA2

Both WPA and WPA2 provide strong data security. WPA2 with AES is a hardware implementation. If you want to use WPA2 security, make sure that all devices in your WiFi network support WPA2 security. If you are not sure, use WPA + WPA2 security.

Note: WPA-PSK security supports speeds of up to 54 Mbps. Even if your devices are capable of a higher speed, WPA-PSK security limits their speed to 54 Mbps. NETGEAR recommends that you use WPA2-PSK security, which supports the maximum speed that your devices are capable of.

The process to configure WPA, WPA2, or WPA + WPA2 security is the same for the 2.4 GHz and 5 GHz bands.

> To configure WPA, WPA2, or WPA + WPA2 in the extender:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Settings > Wireless.

Smart Setup	Wireless
Add WPS Client	XCancel Apply >
▼Settings	
Connect to Existing Network	Region Selection
Wireless	Region: North America 😽
IP Address	Ethernet ports to WiFi use the following band: 💿 2.4GHz 🔘 5GHz
►USB Storage	My EX6200 Wireless Network (2.4GHz)
▶ Maintenance	Name (SSID): SimplePresenceNetw_2GEXT
► Advanced	Channel: Auto 🛩
	Wireless mode: Up to 300Mbps 💌
	Security Options (2.4GHz)
	ONone
	Owep
	O WPA-PSK [TKIP]
	O WPA2-PSK [AES]
	Security Options (WPA-PSK + WPA2-PSK)
	Password (network key): (8-63 characters or 64 hexdigits)

- Scroll down to either the Security Options (2.4GHz) section (shown in the previous figure) or the Security Options (5GHz) section, and select the WPA-PSK [TKIP], WPA2-PSK [AES], or WPA-PSK [TKIP] + WPA2-PSK [AES] radio button.
- 6. In the **PassPhrase** field, enter the passphrase.
- 7. Click the Apply button.

Your settings are saved.

8. If you are disconnected, reconnect your WiFi device to the extender's network with its new settings.

Smart Setup can guide you through this process. For more information, see *Run Smart Setup Again After Initial Setup* on page 67.

Configure WEP

WEP is legacy WiFi security that limits the wireless mode to the **Up to 54 Mbps** selection, irrespective of whether you use the 2.4 GHz band or the 5 GHz band. Unless your WiFi network includes devices that do not support WPA2 or WPA security, NETGEAR recommends that you use WPA2, WPA, or WPA + WPA2 security.

Note: 802.11ac and 802.11n devices do not support WEP security. If you change the security to WEP, 802.11ac devices and 802.11n devices in either the 2.4 GHz or 5 GHz band cannot join the network.

Note: WPS does not support WEP security. If you change the security to WEP, you can no longer let WiFi devices join the extender's WiFi network by using WPS.

The process to configure WEP security is the same for the 2.4 GHz and 5 GHz bands.

> To set up WEP:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

- 4. Select Settings > Wireless.
- 5. Scroll down to either the Security Options (2.4GHz) section (shown in the following figure) or the Security Options (5GHz) section, and select the **WEP** radio button.

Smart Setup	Wireless		
Add WPS Client		XCancel Apply ►	
▼ Settings			
Connect to Existing Network	Region Selection		
Wireless	Region: North America	~	
IP Address	Ethernet ports to WiFi use t	he following band: 💿 2.4GHz 🗢 5GHz	
►USB Storage	My EX6200 Wireless Netv	vork (2.4GHz)	
▶ Maintenance	Name (SSID):	SimplePresenceNetw_2GEXT	
▶ Advanced	Channel:	Auto 🛩	
	Wireless mode:	Up to 54Mbps 💌	
	Security Options (2.4GHz)	6	
	O None		
	⊙ WEP		
	WPA-PSK [TKIP]		
	O WPA2-PSK [AES]		
	O WPA-PSK [TKIP] + WPA2-PSK [AES]		
	Security Encryption (WEP		
	Encryption Strength:	64 bit 💌	
	Security Encryption (WEP) Key	
	Key 1; 💿		
	Key 2: O		
	Key 3: O		
	Key 4: 🔘		

- 6. From the Encryption Strength menu, select the encryption strength setting:
 - **64 bit**. Requires an encryption key of 10 hexadecimal digits (any combination of 0–9, a–f, or A–F) or a string of five characters.

- **128 bit**. Requires an encryption key of 26 hexadecimal digits (any combination of 0–9, a–f, or A–F) or a string of 13 characters.
- 7. Specify the active key by selecting the Key 1, Key2, Key3, or Key 4 radio button.

Only one key can be the active key.

8. Enter a key next to the selected radio button.

The size of the key depends on your selection from the **Encryption Strength** menu (64 bit or 128 bit). The key values are not case-sensitive.

9. Click the Apply button.

Your settings are saved.

10. If you are disconnected, reconnect your WiFi device to the extender's network with its new settings.

Smart Setup can guide you through this process. For more information, see *Run Smart Setup Again After Initial Setup* on page 67.

Change the Extender IP Address and Device Name

By default, the extender receives its IP address automatically from the WiFi router to which it connects. If the WiFi router does not have a DHCP server or its DHCP server is disabled, you can assign a static IP address to the extender.

Before you assign a static IP address, you must know the IP address range, subnet mask, gateway IP address, and primary DNS server of your network.



CAUTION:

NETGEAR recommends that you change the IP address of the extender only if you are technically experienced or have a technically experienced person to help you. Incorrect configuration can prevent you from connecting to the extender and might require you to reset the extender to factory default settings.

You can also change the extender device name, which is the name by which the extender is known in the network.

To change the IP address of the extender to a static IP address and specify a new device name:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select extender **Settings > IP Address**.

Smart Setup	IP Address					
Add WPS Client	XCan	cel Apply ►				
▼ Settings						
Connect to Existing Network	Device Name		E×6	200		
Wireless						
IP Address	Device's IP Address					
▶USB Storage	Get Dynamically IP Address From Router O Use Static IP Address					
▶ Maintenance	IP Address		192	. 168	. 100	. 183
	IP Subnet Mask		255	. 255	. 255	. 0
▶ Advanced	Gateway IP Address		192	. 168	. 100	. 1
	Primary DNS		192	. 168	. 100	. 1

5. To change the name, type a name in the **Device Name** field.

By default, the device name is **EX6200**.

- 6. Select the Use Static IP Address radio button.
- 7. Specify the static IP address settings:
 - **IP Address**. The static IP address to be assigned to the extender.
 - IP Subnet Mask. The subnet mask associated with the IP address.
 - Gateway IP Address. The IP address for the gateway for your WiFi network.
 - **Primary DNS**. The primary domain name server (DNS) for your WiFi network.
- 8. Click the Apply button.

Your settings are saved, and you are disconnected from the extender.

9. To continue to configure the extender, reconnect to the extender using the new IP address.

Manage Advanced WiFi and WPS Settings

The extender is already configured with the optimum settings. Do not change the advanced settings unless directed by NETGEAR support. Incorrect settings might disable the extender unexpectedly.

> To view or change the advanced WiFi and WPS settings:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Advanced > Wireless Settings.



5. View or change the following settings as described in the following table:

Setting	Description
Advanced Wireless Se	ttings
Enable Wireless Access Point (2.4GHz)	By default, the extender functions as a WiFi access point in the 2.4 GHz band. Clear the Enable Wireless Access Point (2.4GHz) check box only if you want to prevent WiFi devices from connecting to the extender in the 2.4 GHz band. LAN devices can still connect to the extender over an Ethernet cable.
Enable SSID Broadcast (2.4GHz)	By default, the extender broadcasts its WiFi network name (SSID) for the 2.4 GHz band. Clear the Enable SSID Broadcast (2.4GHz) check box only to hide the network name of the extender in the 2.4 GHz band. In such a situation, the network name of the extender does not display in a WiFi network manager. A user who wants to join the hidden WiFi network of the extender must know its network name.
Enable Wireless Access Point (5GHz)	By default, the extender functions as a WiFi access point in the 5 GHz band. Clear the Enable Wireless Access Point (5GHz) check box only if you want to prevent WiFi devices from connecting to the extender in the 5 GHz band. LAN devices can still connect to the extender over an Ethernet cable.
Enable SSID Broadcast (5GHz)	By default, the extender broadcasts its WiFi network name (SSID) for the 5 GHz band. Clear the Enable SSID Broadcast (5GHz) check box only to hide the network name of the extender in the 5 GHz band. In such a situation, the network name of the extender does not display in a WiFi network manager. A user who wants to join the hidden WiFi network of the extender must know its network name.
WPS Settings	
Extender's PIN	This is a fixed field that shows the extender's PIN.

Setting	Description	
Enable Device's PIN	By default, the Enable Device's PIN check box is selected and the extender's PIN is enabled. For enhanced security, you can disable the extender's PIN by clearing the Enable Device's PIN check box. However, when you disable the extender's PIN, WPS is not disabled because you can still use the physical WPS button.	
	Note: The PIN function might temporarily be disabled when the router detects suspicious attempts to break into the router's WiFi settings by using the router's PIN through WPS.	
Prevent PIN compromise	By default, automatic disabling of the PIN is turned on, and the PIN is disabled after three failed PIN connections. In this situation, the WPS LED blinks slowly. When you restart the extender, the PIN is reenabled.	
	To turn off automatic disabling of the PIN, clear the check box <i>below</i> the Enable Device's PIN check box. You can change this setting only when the PIN is enabled.	
	To change the number of times that a PIN connection is allowed to fail, enter a number in the field. You can change this number only when the PIN is enabled.	
Keep Existing Wireless Settings (2.4GHz b/g/n)	By default, the settings on the Wireless Settings screen remain the same when you use WPS to establish a WiFi connection in the 2.4 GHz band. Clear the Keep Existing Wireless Settings (2.4GHz b/g/n) check box only if you want to allow the WPS process to change the SSID and passphrase for access in the 2.4 GHz band on the Wireless Settings screen.	
Keep Existing Wireless Settings (5GHz a/n/ac)	By default, the settings on the Wireless Settings screen remain the same when you use WPS to establish a WiFi connection in the 5 GHz band. Clear the Keep Existing Wireless Settings (5GHz a/n/ac) check box only if you want to allow the WPS process to change the SSID and passphrase for access in the 5 GHz band on the Wireless Settings screen.	

- Note: If you clear a Keep Existing Wireless Settings check box and use WPS to add a computer or WiFi device to the extender's network, the SSID and passphrase are automatically generated and other devices that are already connected to the extender's network might be disconnected. You can view the SSID and passphrase on the Wireless Settings screen (see *Manage the Extender WiFi Settings* on page 48). NETGEAR recommends that you keep the Keep Existing Wireless Settings check boxes selected.
- 6. Click the Apply button.

Your changes are saved.

Manage a WiFi Access List

By default, any WiFi device that is configured with the correct network name (SSID) can access the WiFi network of the extender. For increased security, you can restrict access to the WiFi network of the extender to allow only specific WiFi devices based on their MAC addresses. Devices that are not on the access list cannot join the WiFi network of the extender.

Each network device has 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 do not have access to 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 Network Devices screen (see *View the Wired and WiFi Network Devices* on page 83).



CAUTION:

If you use a WiFi device to set up the access list, add your WiFi device to the access list. Otherwise, you are disconnected when you click the **Apply** button. To avoid this situation, use a computer with a wired connection to access the extender.

Set Up and Enable the Access List

Before you can enable the access list, you must add the MAC addresses of the WiFi devices that you want to grant access to the WiFi network of the extender.

> To set up and enable the access list:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Advanced > Wireless Settings.

Advanced Wireless Settings		
X Cancel Apply >		
Advanced Wireless Settings		
Enable Wireless Access Point (2.4GHz)		
Enable SSID Broadcast (2.4GHz)		
Enable Wireless Access Point (5GHz)		
Enable SSID Broadcast (5GHz)		
WPS Settings		
Extender's PIN: 37796587		
🗹 Enable Device's PIN		
I to prevent PIN compromise, auto disable the PIN after 3 failed PIN connections, until device		
reboots. In auto disabled mode, device's WPS LED will keep blinking slowly		
Keep Existing Wireless Settings (2.4GHz b/g/n)		
✓ Keep Existing Wireless Settings (5GHz a/n/ac)		
Wireless Card Access List Setup Access List		

5. Click the Setup Access List button.

Smart Setup	Wireless Card A	Access List		
Add WPS Client		XCancel	Apply ►	
▶ Settings]	A		
►USB Storage	Turn Access Con	trol On		
▶ Maintenance		Device Name	MAC Address	
▼Advanced		🕂 Add 🧪 Edit	X Delete	
Wireless Settings				
Operating Mode				
USB Settings				

If you have not yet added any WiFi devices, the Wireless Card Access List is empty.

6. Click the Add button.

Smart Setup	Wireless Card	Access List	
Add WPS Client		XCancel G	Refresh + Add
▶ Settings			
►USB Storage	Available Wireless	Cards	
	2	Device Name	MAC Address
▶ Maintenance	0	Vostro1500	00:2e:2b:55:32:b4
Advanced	Wireless Card Entr	v	
Wireless Settings	Device Name:		
Operating Mode			
	MAC Address:		

The Available Wireless Cards table displays the name and MAC address of WiFi devices that are connected to the extender.

- 7. Select a device by one of the following methods:
 - Select a device from the table by selecting its associated radio button.

The Device Name and MAC Address fields are automatically populated.

- Enter a device name and MAC address manually:
 - a. In the **Device Name** field, type a name for the WiFi device.
 - **b.** In the **MAC Address** field, type the MAC address of the WiFi device.
- 8. Click the Apply button.

The WiFi device is added to the Wireless Card Access List.

Smart Setup	Wireless Carc	l Access List	
Add WPS Client		XCancel	Apply ►
▶ Settings)		
►USB Storage	Turn Access C	ontrol On	
▶ Maintenance		Device Name	MAC Address
Advanced	0	IPphone	a2:33:ba:72:24:ac
Wireless Settings		+Add 🖍 Edit	× Delete
Operating Mode	-4		
USB Settings			

9. To add more WiFi devices, repeat Step 6 through Step 8.

10. Select the Turn Access Control On check box.



CAUTION:

If you use a WiFi device to set up the access list, add your WiFi device to the access list. Otherwise, you are disconnected when you click the **Apply** button.

11. Click the Apply button.

Now only WiFi devices that are in the Wireless Card Access List can access the WiFi network of the extender.

Disable the Access List

If you decide that you no longer need an access list on the extender, you can disable the access list.

- > To disable the access list:
 - 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
 - 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Advanced > Wireless Settings.

Smart Setup	Advanced Wireless Settings	
Add WPS Client	XCancel Apply >	
▶ Settings		
USB Storage	Advanced Wireless Settings	
	Enable Wireless Access Point (2.4GHz)	
Maintenance	Enable SSID Broadcast (2.4GHz)	
 Advanced 	Enable Wireless Access Point (5GHz)	
Wireless Settings	Enable SSID Broadcast (5GHz)	
Operating Mode	WPS Settings	
USB Settings	Extender's PIN: 37796587	
	🗹 Enable Device's PIN	
	To prevent PIN compromise, auto disable the PIN after 3 failed PIN connections, until device	
	reboots. In auto disabled mode, device's WPS LED will keep blinking slowly	
	Keep Existing Wireless Settings (2.4GHz b/g/n)	
	☑ Keep Existing Wireless Settings (5GHz a/n/ac)	
	Wireless Card Access List Setup Access List	

5. Click the Setup Access List button.

dd WPS Client	í	XCancel	Apply >
Settings		(Addition	
▶USB Storage	Turn Access C	ontrol On	
▶ Maintenance		Device Name	MAC Address
▼Advanced	0	IPphone	a2:33:ba:72:24:ac
Wireless Settings		+Add 🖍 Edit	X Delete
Vil cless Settings			

- 6. Clear the Turn Access Control On check box.
- 7. Click the Apply button.

Now any WiFi device can access the WiFi network of the extender.

Change a Device on the Access List

You can change the name or MAC address of a device on the access list.

> To change a WiFi device on the access list:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Advanced > Wireless Settings.

Smart Setup	Advanced Wireless Settings		
Add WPS Client	X Cancel Apply >		
▶ Settings			
►USB Storage	Advanced Wireless Settings		
▶ Maintenance	Enable Wireless Access Point (2.4GHz)		
• Maintenance	Enable SSID Broadcast (2.4GHz)		
▼Advanced	Enable Wireless Access Point (5GHz)		
Wireless Settings	Enable SSID Broadcast (5GHz)		
Operating Mode	WPS Settings		
USB Settings	Extender's PIN: 37796587		
	🗹 Enable Device's PIN		
	To prevent PIN compromise, auto disable the PIN after a failed PIN connections, until device reboots.		
	In auto disabled mode, device's WPS LED will keep blinking slowly		
	Keep Existing Wireless Settings (2.4GHz b/g/n)		
	✓ Keep Existing Wireless Settings (5GHz a/n/ac)		
	Wireless Card Access List Setup Access List		

5. Click the Setup Access List button.

mart Setup	Wireless Card	Access List	
dd WPS Client		XCancel	Apply ►
Settings			
USB Storage	Turn Access Control On		
Maintenance		Device Name	MAC Address
Advanced	IPphone a2:33:ba:72:24:ac		a2:33:ba:72:24:ac
Wireless Settings		+Add 🖌 Edit	X Delete
Operating Mode			
USB Settings			

- 6. Select the radio button to the left of the device that you want to change.
- 7. Click the **Edit** button.

Smart Setup Add WPS Client	Wireless Card Access List	
► Settings		XCancel Apply >
▶USB Storage	Device Name:	IPphone
▶ Maintenance	MAC Address:	a2:33:ba:72:24:ac
▼Advanced		
Wireless Settings		
Operating Mode USB Settings		

- 8. Change the name of the device or the MAC address.
- 9. Click the Apply button.

The changed settings display in Wireless Card Access List.

Remove a Device from the Access List

If you no longer want to grant a device access to the WiFi network of the extender, you can remove the device from the access list.

> To remove a WiFi device from the access list:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Advanced > Wireless Settings.

Smart Setup	Advanced Wireless Settings		
Add WPS Client		XCancel Apply ►	
▶ Settings			
USB Storage	Advanced Wireless Settings		
na anna ann an t-ann	Enable Wireless Access Point (2.4GHz)		
▶ Maintenance	Enable SSID Broadcast (2.4GHz)		
▼Advanced	Enable Wireless Access Point (5GHz)		
Wireless Settings	Enable SSID Broadcast (5GHz)		
Operating Mode	WPS Settings		
USB Settings	Extender's PIN:	37796587	
	🗹 Enable Device's PIN		
	To prevent PIN compromise, a	uto disable the PIN after 3 failed PIN connections, until device	
	reboots. In auto disabled mode, device's W	PS LED will keep blinking slowly	
	Keep Existing Wireless Settings (2.4GHz b/g/n)		
	✓ Keep Existing Wireless Settings (5G	Hz a/n/ac)	
	Wireless Card Access List	Setup Access List	

5. Click the Setup Access List button.

Smart Setup Add WPS Client	Wireless Card			
▶ Settings	j	XCancel	Apply 🕨	
►USB Storage	Turn Access C	ontrol On		
▶ Maintenance		Device Name	MAC Address	
▼Advanced	0	IPphone	a2:33:ba:72:24:ac	
Wireless Settings		🕂 Add 🗾 🖍 Edit	X Delete	
Operating Mode USB Settings				

- 6. Select the radio button to the left of the device that you want to remove.
- 7. Click the **Delete** button.

The device is removed from the Wireless Card Access List.

Set the Operating Mode to FastLane Technology

The normal operating mode of the extender (also referred to as *Internet Surfing* mode) is to allow devices on both 2.4 and 5 GHz bands to connect at the same time. This mode extends both WiFi bands at the same time, but reduces the WiFi performance.

FastLane Technology offers maximum WiFi performance. It provides high-speed WiFi with a dedicated band connecting the extender and the WiFi device, and a second band connecting the extender and the WiFi router. FastLane Technology is ideal for HD gaming and HD video streaming.

Note: If all your devices and your WiFi router support only the 2.4 GHz band, or all your devices and your WiFi router support only the 5 GHz band, do not enable FastLane Technology.

When you enable FastLane Technology, you have two options:

- Use the 2.4 GHz band to connect the extender to the WiFi 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 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 devices and use the 2.4 GHz band to connect the extender to the WiFi router. Use this mode if the 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 enable FastLane Technology:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Advanced > Operating Mode.



- 5. By default, the **Internet Surfing** radio button is selected.
- 6. Select the FastLane Technology radio button.
- **7.** Select the FastLane Technology option that you want to enable by selecting one of the following radio buttons:
 - Device-to-extender in 5GHz only and extender-to-router in 2.4GHz only. Your WiFi devices must support the 5 GHz band.
 - Device-to-extender in 2.4GHz only and extender-to-router in 5GHz only (Router must support 5GHz band).

Your WiFi router must support the 5 GHz band. This option is enabled by default.

8. Click Apply.

Your settings are saved.

9. If you are disconnected, reconnect your WiFi device to the extender's network with its new settings.

For example, if you were connected to the extender's network in the 2.4 GHz band, you now might have to connect in the 5 GHz band, or the other way around.

Run Smart Setup Again After Initial Setup

There might be situations in which you want to run NETGEAR genie Smart Setup again after the initial setup.

> To run Smart Setup again:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Smart Setup.

Smart Setup
Add WPS Client
▶ Settings
►USB Storage
▶ Maintenance
▶ Advanced

Smart Setup searches for existing WiFi networks automatically and displays the networks in the 2.4 GHz band.

	Tourex	tender supports dual band WiFi. If you v	vant to connect t		A second s	
Device-to-Extender				Skip	Refresh	Continue
Apply Settings		SSID SimplePresenceNetwork	Channel 6	Signal 47%		curity VPA2-PSK
	ŏ	Manually input my wireless SSID				

5. Select a 2.4 GHz WiFi network to extend, and click the **Continue** button.

Device-to-Extender Your existing network in 2.4GHz: Apply Settings Name (SSID): SimplePresenceNetwork Security: WPA2-PSK [AES] Password (network key): Back Back Continue	Extender-to-Router	Enter the security password for your selected WiFi network.
Apply Settings Name (SSID): SimplePresenceNetwork Security: WPA2-PSK [AES] Password (network key):	Device-to-Extender	Your existing network in 2 1GH7
	Apply Settings	Name (SSID): SimplePresenceNetwork Security: WPA2-PSK [AES] Password (network key):

- 6. Enter the security settings for the existing 2.4 GHz network:
 - If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - a. In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
 - If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).
 - b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
 - c. Next to the selected radio button, enter the network WEP key.
 - d. Click the Continue button.

If Smart Setup detects any networks in the 5 GHz band, it displays them.

Device-to-Extender		der supports dual band WiFi. er does not support 5GHz band, click the Skip button.		Skip Ť	Refresh Continu
Apply Settings		SSID	Channel	Signal	Security
	0	My router does not support 5GHz band.			
	0	Set it up later			
	۲	SimplePresenceNetwork	149	21%	WPA/WPA2-PSK
	0	Manually input my wireless SSID			

- 7. Select a 5 GHz WiFi network to extend, and click the **Continue** button.
 - **Note:** If your router does not support the 5 GHz band (not all routers do) or you want to set up the 5 GHz extender network later, click the **Skip** button, and go to *Step 9* on page 70.

Extender-to-Router	Enter the security password for your selected WiFi network.
Device-to-Extender	Your existing network in 5GHz:
Apply Settings	Name (SSID): Security: WPA2-PSK [AES] Password (network key): Back Continue

- 8. Enter the security settings for the existing 5 GHz network:
 - If the network uses WPA-PSK, WPA2-PSK, or a combination of these options, do the following:
 - **a.** In the **Password (network key)** field, type the network passphrase (also called a password or network key).
 - **b.** Click the **Continue** button.
 - If the network uses WEP, do the following:
 - a. From the Encryption Strength menu, select the encryption strength (64 bit or 128 bit).
 - b. Select the radio button that corresponds to the key that you want to use (Key 1, Key 2, Key 3, or Key 4).
 - c. Next to the selected radio button, enter the network WEP key.
 - d. Click the **Continue** button.

Smart Setup displays the network names and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name.

Name (2.4G SSID) Name (5G SSID)	SimplePresenceNetw_2GEXT SimplePresenceNetw_5GEXT]	
	le and password as those for the existing network.	*	
Back Contin	ue		
		Name (56 SSID) SimplePresenceNetw_5GEXT	Name (5G SSID) SimplePresenceNetw_5GEXT Image: Use the same security mode and password as those for the existing network.

- 9. Use the default extension names, or, in the Name (2.4GHz SSID) field, and, if you have set up a 5 GHz network, in the Name (5GHz SSID) field, enter new network names for your extender WiFi networks, and click the Continue button.
 - **Note:** If you do not want to use the same security modes for your extender networks as you use for your existing networks, clear the check box before you click the **Continue** button. You then can configure the security settings for the extender networks. However, you can also change the security settings later.

The extender applies the settings.

Applying your settings. This may take up to a minute.

10. Wait a couple of minutes while the extender creates the WiFi networks.

When the extender is ready, Smart Setup summarizes the extender networks.

Extender-to-Router	Follow the instru	ctions below to connect you devices to	the extended network.
Device-to-Extender	2.4GHz Extender Netwo	ork	5GHz Extender Network
Apply Settings	Name (SSID): SimpleF Security: WPAWPA2-PS		Name (SSID): SimplePresenceNetw_5GEXT Security: WPAWPA2-PSK
	Password (network key): 6305305306	Password (network key): 5305305306
		ke a laptop, tablet, smart TV, etc. to your extended netwo ended network. (Show image here)	rk. For example, on your laptop you may use the Windows WiFi manager to
	¹¹⁷ Wireless Network Connec	tion	
	Network Taaks	Choose a wireless network Oct as ten is the list below to correct to a wreless network in range or to get more information. ((p)) Nitrane_Ext ((p)) Nitrane_Ext	
	Once you have conr	ected your devices, mark the checkbox and click the Co	Continue

- **11.** Use a WiFi network manager on the computer or mobile device to connect to the extender's newly created 2.4 GHz or 5 GHz WiFi network.
 - **Note:** Unless you entered a new network name in *Step 9*, the extender changes its default NETGEAR_EXT network name to the name of the WiFi network to which you connected the extender and adds _2GEXT to the end of the 2.4 GHz network name and _5GEXT to the end of the 5 GHz network name.
 - **Note:** If your computer or mobile device cannot join the new WiFi network of the extender, see *Improve the Connection Between the Extender and the WiFi Router* on page 116.
- **12.** Select the **My wireless devices are connected to the Extender network** check box, and click the **Continue** button.

Smart Setup describes the color of the Link Rate LED on the front of the extender. Because you placed the extender close the WiFi router, the Link Rate LED is green.

Extender-to-Router	Your extender has successfully connected to your existing WIFi network. The link rate LED is green, indicating that the Extender is connecting to the existing network at best speed.	
Device-to-Extender	Finish	
Apply Settings		

13. Click the **Finish** button.

A pop-up screen displays.

14. To bookmark the URL of the extender, click the **OK** button.

A NETGEAR website displays. You are now online.

Connect Ethernet-Enabled Devices

You can use the extender to connect as many as five Ethernet-enabled devices, such as smart TVs, game consoles, and Blu-ray players, to the WiFi network.

After you have set up the extender, plug the Ethernet cable from a device that you want to connect directly into one of the extender's Gigabit Ethernet LAN ports.

By default, the Gigabit Ethernet ports connect to the 2.4 GHz WiFi band. For information about how to change the connection to the 5 GHz WiFi band, see *Manage the Extender WiFi Settings* on page 48.



Gigabit Ethernet LAN ports

Figure 8. Gigabit Ethernet LAN ports on the rear panel

Maintain and Monitor the Extender

4

This chapter covers the following topics:

- Recover the admin Password
- Back Up and Manage the Extender Configuration
- Return the Extender to Its Factory Default Settings
- Update the Firmware
- View the Status and Traffic Statistics of the Extender
- View the Wired and WiFi Network Devices

Recover the admin Password

If you have changed the password to access the extender and have set up password recovery, you can recover your password if you have lost it. For information about setting up password recovery, see *Set Up Password Recovery* on page 37.

If you did not set up password recovery and have lost your password, you must reset the extender to factory default settings (see *Use the Restore Factory Settings Button* on page 77).

> To recover your password to access the extender:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 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 Cancel button.

If password recovery is enabled, you are prompted to enter the serial number of the extender. The serial number is on the product label.

- 4. Enter the serial number of the extender.
- 5. Click the **Continue** button.

A screen displays requesting the answers to your security questions.

- 6. Enter the saved answers to your security questions.
- 7. Click the **Continue** button.

A screen displays confirming a successful recovery of your password.

8. Click the Login again button.

A login screen displays.

9. With your recovered password, log in to the extender.

Back Up and Manage the Extender Configuration

When the extender works correctly after initial setup, NETGEAR recommends that you back up the extender configuration settings. After you have backed up the settings, if you have changed 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 computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select extender Maintenance > Backup Settings.

Smart Setup	Backup Settings
Add WPS Client	Save a Copy of Current Settings
▶ Settings	Backup
►USB Storage	Restore Saved Setting from a File
▼Maintenance	Browse
<u>Status</u>	Restore
Attached Devices Backup Settings	Revert to Factory Default Settings
Set Password	Erase
Firmware Update	
▶ Advanced	

5. Click the **Backup** button.

Your browser extracts the configuration file from the extender. By default, the name of the backup file is NETGEAR_Ex6200.cfg.

6. If you do not have your browser 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 your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select extender Maintenance > Backup Settings.

Smart Setup	Backup Settings
Add WPS Client	Save a Copy of Current Settings
▶ Settings	Backup
►USB Storage	Restore Saved Setting from a File
▼Maintenance	Browse
Status	Restore
Attached Devices Backup Settings	Revert to Factory Default Settings
Set Password	Erase
Firmware Update	
▶ Advanced	

- 5. Click the **Browse** button.
- 6. Locate and select the previously saved backup file.

By default, the name of the backup file is NETGEAR_EX6200.cfg.



CAUTION:

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

7. Click the **Restore** button.

A confirmation pop-up screen displays.

8. Confirm your decision.

The extender restarts. This process takes about one minute.

Return the Extender to Its Factory Default Settings

Under some circumstances (for example, if you have lost track of the changes that you made to the extender settings), you might want to erase the configuration and reset it to 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. However, if you have lost the password to access the extender, you must use the Restore Factory Settings button.

For a list of factory default settings, see Factory Default Settings on page 118.

Use the Restore Factory Settings Button



CAUTION:

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

> To reset the extender to factory default settings:

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



Restore Factory Settings button

2. Release the button.

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

Erase the Extender Configuration Settings



CAUTION:

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

> To erase the extender's settings:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Maintenance > Backup Settings.

Backup Settings
Save a Copy of Current Settings
Backup
Restore Saved Setting from a File
Browse
Restore
Revert to Factory Default Settings
Erase



CAUTION:

After you click the **Erase** 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!

5. Click the Erase button.

A confirmation pop-up screen displays.

6. Confirm your decision.

The extender restarts. This process takes about one minute.

Update the Firmware

Unless you changed the settings in the Firmware Update screen 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 computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Maintenance > Firmware Update.

Smart Setup	Device Update	
Add WPS Client	Check for new version online	Check
▶ Settings	Locate and select the upgrade file from your hard disk:	
►USB Storage	Browse	
▼Maintenance	Upload Cancel	
Status	Children Children	
Attached Devices		
Backup Settings		
Set Password		
Firmware Update		
► Advanced		

- 5. Click the **Check** button.
- 6. If new firmware is available, follow the onscreen prompts to download it onto your computer.

Note: You might need to unzip the firmware file.

- 7. Click the **Browse** button.
- 8. Locate and select the new firmware file.

The firmware file has 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!

9. Click the Upload button.

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

View the Status and Traffic Statistics of the Extender

The Status screen displays when you log in to the extender after initial setup. The Status screen shows the current settings for the extender and provides access to the traffic statistics, such as the number of packets sent and number of packets received for each port.

- > To view the status of the extender, to view the traffic statistics, and to change the poll interval:
 - 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
 - 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Maintenance > Status.

Smart Setup		
dd WPS Client	Hardware Version	EX6200
Settings	Firmware Version	V1.0.0.35_1.1.40_wl_dbg
USB Storage	GUI Language Version	V1.0.0.34_2.1.30.1
▼Maintenance	Connection Status to Existing Network	(2.4GHz)
Status	Name (SSID)	SimplePresenceNetwork
Attached Devices	Link Rate	144 Mbps
Backup Settings	Signal Strength	-54 dBm
Set Password	Connection Status	Connected
Firmware Update		
172-215-15-15-15-15-1	Connection Status to Existing Network	
▶ Advanced	Name (SSID)	SimplePresenceNetwork
	Link Rate	270 Mbps
	Signal Strength	-75 dBm
	Connection Status	Connected
	Extender IP Info	
	MAC Address	C4:04:15:0D:6D:54
	IP Address	192.168.100.183
	DHCP Client	On
	IP Subnet Mask	255.255.255.0
	Gateway IP Address	192.168.100.1
	Domain Name Server	192.168.100.1
	Extender Wireless Setting (2,4GHz)	
	Name (SSID)	SimplePresenceNetw_2GEXT
	Region	North America
	Channel	Auto (6)
	Wireless mode:	Up to 300Mbps
	Wireless AP	On
	Broadcast Name	On
	Wi-Fi Protected Setup	Configured
	Extender Wireless Setting (5GHz)	
	Name (SSID)	SimplePresenceNetw_5GEXT
	Region	North America
	Channel	149(P) + 153 + 157 + 161
	Wireless mode:	Up to 867 Mbps
	Wireless AP	On
	Broadcast Name	On
	Wi-Fi Protected Setup	Configured

The following table describes the fields on the Status screen.

Field	Description
Hardware Version	The hardware version of the extender.
Firmware Version	The current firmware version of the extender. If you upgrade the firmware, this field changes.
GUI Language Version	The language version that is set on the extender. If you upgrade the firmware, this field might change.

AC1200 WiFi Range Extender

Field	Description
Connection Status to	Existing Network (2.4GHz)
Name (SSID)	The name (SSID) of the WiFi network in the 2.4 GHz band to which the extender is connected.
Link Rate	The combined transmission (Tx) and receive (Rx) link rate in Mbps of the current WiFi connection in the 2.4 GHz band.
Signal Strength	The signal strength that the extender detects for the WiFi network in the 2.4 GHz band.
Connection Status	Shows whether the extender is connected to the WiFi network in the 2.4 GHz band. If the extender is disconnected from the WiFi network in the 2.4 GHz band, a Connect button displays. Click the Connect button connect the extender to the WiFi network in the 2.4 GHz band.
	Note: The extender can be connected simultaneously to a network in the 2.4 GHz band and to a network in the 5 GHz band. If you have a dual band WiFi router, the router can broadcast the same network name (SSID) simultaneously in both bands.
Connection Status to	Existing Network (5GHz)
Name (SSID)	The name (SSID) of the WiFi network in the 5 GHz band to which the extender is connected.
Link Rate	The combined transmission (Tx) and receive (Rx) link rate in Mbps of the current WiFi connection in the 5 GHz band.
Signal Strength	The signal strength that the extender detects for the WiFi network in the 5 GHz band.
Connection Status	Shows whether the extender is connected to the WiFi network in the 5 GHz band. If the extender is disconnected from the WiFi network in the 5 GHz band, a Connect button displays. Click the Connect button connect the extender to the WiFi network in the 5 GHz band.
	Note: The extender can be simultaneously connected to a network in the 5 GHz band and to a network in the 2.4 GHz band. If you have a dual band WiFi router, the router can broadcast the same network name (SSID) simultaneously in both bands.
Extender IP Info	
MAC Address	The physical address of the extender.
IP Address	The IP address of the extender. The default is 192.168.1.250.
DHCP Client	Shows whether the DHCP client of the extender is on.
IP Subnet Mask	The IP subnet mask that is associated with the IP address of the extender. The default is 255.255.255.0.
Gateway IP Address	The IP address of the WiFi network gateway.
Domain Name Server	The IP address of the Domain Name Server (DNS) of the WiFi network.

AC1200 WiFi Range Extender

Field	Description
Extender Wireless Set	tings (2.4GHz)
Name (SSID)	The name (SSID) of the WiFi network of the extender in the 2.4 GHz band.
Region	The location in which the extender is operating in the 2.4 GHz band.
Channel	The active channel of the WiFi network in the 2.4 GHz band.
Wireless mode	The wireless mode in the 2.4 GHz band: Up to 54 Mbps, Up to 145 Mbps, or Up to 300 Mbps.
Wireless AP	Shows whether the WiFi access point of the extender is on in the 2.4 GHz band.
Broadcast Name	Shows whether broadcasting of the network name (SSID) of the extender is on in the 2.4 GHz band.
Wi-Fi Protected Setup	Shows whether Wi-Fi Protected Setup (WPS) is configured for the 2.4 GHz band.
Extender Wireless Set	tings (5GHz)
Name (SSID)	The name (SSID) of the WiFi network of the extender in the 5 GHz band.
Region	The location in which the extender is operating in the 5 GHz band.
Channel	The active channel of the WiFi network in the 5 GHz band.
Wireless mode	The wireless mode in the 5 GHz band: Up to 54 Mbps, Up to 173 Mbps, Up to 400 Mbps, or Up to 867 Mbps.
Wireless AP	Shows whether the WiFi access point of the extender is on in the 5 GHz band.
Broadcast Name	Shows whether broadcasting of the network name (SSID) of the extender is on in the 5 GHz band.
Wi-Fi Protected Setup	Shows whether Wi-Fi Protected Setup (WPS) is configured for the 5 GHz band.

5. Click the Show Statistics button.

ystem Up Tin Port	Status	TxPkts	RxPkts	Collisions	Tx B/s	Rx B/s	Up Time
LAN1	Link Down						
LAN2	Link Down						
LAN3	Link Down			-	-		
LAN4	Link Down						
LAN5	Link Down						
2.4G WLAN1	145M	141083	126812	0	64726	81049	00:18:01
5G WLAN2	173M	28245	350	0	4127	52	00:18:01
		erval: 5		Seconds)	Set Interv	ral Sto	

The following table describes the traffic statistics fields that display for each of the five LAN ports, for the WLAN1 port in the 2.4 GHz band, and for the WLAN2 port in the 5 GHz band.

Field	Description
Status	The link status and speed of the port.
TxPkts	The number of packets transmitted on the port since the extender was restarted.
RxPkts	The number of packets received on the port since the extender was restarted.
Collisions	The number of collisions on the port since the extender was restarted.
Tx B/s	The packet transmission rate in bytes per second on the port.
Rx B/s	The packet reception rate in bytes per second on the port.
Up Time	The time elapsed since the connection was initiated.

- 6. To change the poll interval:
 - a. Click the Stop button.
 - **b.** In the **Poll Interval** field, enter a new value in seconds.
 - c. Click the Set Interval button.

View the Wired and WiFi Network Devices

You can view the active wired and WiFi devices in both the network to which the extender is connected and the extender network. If you do not recognize a WiFi device, it might be an intruder.

> To display the wired and WiFi devices:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Maintenance > Attached Devices.

Virtual MAC Address
Virtual MAC Address
02:0F:B5:67:33:B2

For each wired and WiFi device, the IP address, device name, MAC address, and virtual MAC address display.

5. (Optional) Click the **Refresh** button.

The information onscreen is updated.

Share a USB Drive That Is Attached to the Extender

5

This chapter describes how to access and configure a USB storage drive attached to your extender. The USB port on the extender can be used only to connect USB storage devices such as flash drives or hard drives, or a printer. Do not connect computers, USB modems, CD drives, or DVD drives to the extender USB port.

This chapter contains the following sections:

- USB Drive Requirements
- Access a USB Drive on the Network
- Back Up Windows Computers with ReadySHARE Vault
- Back Up Mac Computers with Time Machine
- Control Access to the USB Drive
- Use FTP Within the Network
- View Network Folders on a USB Drive
- Add a Network Folder on a USB Drive
- Change a Network Folder on a USB Drive
- Approve USB Devices
- Safely Remove a USB Drive

Note: For more information about ReadySHARE features, visit *www.netgear.com/readyshare.*

USB Drive Requirements

The extender works with most USB-compliant external flash and hard drives. For the most up-to-date list of USB drives that the extender supports, visit *http://kbserver.netgear.com/readyshare*.

Some USB external hard drives and flash drives require you to load the drivers onto the computer before the computer can access the USB device. Such USB devices do not work with the extender.

The extender supports the following file system types for full read and write access:

- FAT16, FAT32
- NTFS
- NTFS with compression format enabled
- Ext2, Ext3, and Ext4
- HFS
- HFS+

Note: Do not connect computers, USB modems, CD drives, or DVD drives to the extender USB port.

Access a USB Drive on the Network

ReadySHARE lets you access and share a USB drive connected to the extender USB port. (If your USB drive has special drivers, it is not compatible.)

> To connect a USB drive:

- 1. Insert your USB storage drive into the USB 3.0 port on the front of the extender.
- 2. If your USB drive has a power supply, you must use it when you connect the USB drive to the extender.

When you connect the USB drive to the extender USB port, it might take up to two minutes before it is ready for sharing. By default, the USB drive is available to all computers on your local area network (LAN).

> To access the USB drive from a Mac:

- 1. Select Go > Connect to Server.
- 2. In the Server Address field, type smb://readyshare as the server address.
- 3. Click the **Connect** button.
- 4. When prompted to enter your name and password, select the **Guest** radio button.
- 5. Click the **Connect** button.

- > To access the USB drive from a Windows computer:
 - 1. Select Start > Run.
 - 2. Enter \\readyshare in the dialog box.
 - 3. Click the OK button.
- > To map the USB device to a Windows network drive:
 - 1. Visit www.netgear.com/readyshare.
 - 2. In the ReadySHARE USB Storage Access pane, click the PC Utility link.

The readyshareconnect.exe file is downloaded to your computer.

3. Launch readyshareconnect.exe.

2rive: Z: ▼ Folder: <u>\\readyshare\USB_Storage</u> ▼ <u>B</u> rowse	
older: \\readyshare\USB_Storage \	
Example: \\server\share	
Reconnect at logon	
Connect using different credentials	
Connect to a Web site that you can use to store your documents and pic	tures.

- 4. Select the drive letter to map to the network folder.
- 5. If you want to connect to the USB drive as a different user, do the following:
 - a. Select the Connect using different credentials check box.
 - **b.** Type the user name and password.
 - c. Click the OK button.
- 6. Click the **Finish** button.

The USB drive is mapped to the drive letter that you specified.

Back Up Windows Computers with ReadySHARE Vault

Your extender comes with free backup software for all the Windows computers in your home. Connect a USB hard disk drive (HDD) to the USB port on your extender for centralized, continuous, and automatic backup.

> To back up your Windows computer:

- 1. Connect a USB HDD to a USB port on the extender.
- 2. Install the genie app on each Windows computer.

To download the genie app, visit *www.netgear.com/genie*.

- 3. Download ReadySHARE Vault from *www.netgear.com/readyshare* and install it on each Windows computer.
- 4. Launch ReadySHARE Vault.
- 5. Use the dashboard or the **Backup** tab to set up and run your backup.

Back Up Mac Computers with Time Machine

You can use Time Machine to back up your Mac computers onto a USB hard drive that is connected to the extender's USB port. You can access the connected USB hard drive from your Mac with a wired or WiFi connection to your extender.

Set Up a USB Hard Drive on a Mac

NETGEAR recommends that you use a new USB HDD or format your old USB disk to do the Time Machine backup for the first time. Use a blank partition to prevent some issues during backup using Time Machine. The extender supports GUID or MBR partitions.

> To format your USB hard disk drive and specify partitions:

- 1. Physically connect the USB hard drive to your Mac.
- 2. On your Mac, go to **Spotlight** (or the magnifying glass) at the top right of the screen and search for **Disk Utility**.
- **3.** To format your USB drive, open the Disk Utility, click the **Erase** tab, and click the **Erase** button.
- 4. Click the Partition tab.
- 5. Click **Partition Layout** menu and specify the number of partitions that you want to use.
- 6. Click the **Options** button.

The Partition options display.

- 7. Select the GUID Partition Table or Master Boot Record radio button.
- 8. For the format, select Mac OS Extended (Journaled).
- 9. Click the OK button.
- 10. Click the Apply button.

Prepare to Back Up a Large Amount of Data

Before you back up a large amount of data with Time Machine, NETGEAR recommends that you follow this procedure.

> To prepare to back up a large amount of data:

- 1. Upgrade the operating system of the Mac computer.
- 2. Verify and repair the backup disk and the local disk.
- 3. Verify and repair the permissions on the local disk.
- 4. Specify Energy Saver:
 - a. From the Apple menu, select System Preferences.
 - b. From the View menu, select Energy Saver.
 - c. Select the Power Adapter tab.
 - d. Select the Wake for Wi-Fi network access check box.
 - e. Click the back arrow to save the changes and exit the screen.
- 5. Modify your Security settings:
 - a. From the Apple menu, select System Preferences.
 - **b.** From the **View** menu, select **Security** and click the **Advanced** button at the bottom of the screen.
 - c. Leave the Log out after minutes of inactivity check box cleared.

Use Time Machine to Back Up onto a USB Hard Drive

You can use Time Machine to back up your Mac computers onto a USB hard disk drive that is connected to the extender's USB port.

> To back up your Mac onto a USB hard drive:

- 1. Prepare your USB drive with a compatible format and partitions (see *Set Up a USB Hard Drive on a Mac* on page 88).
- 2. If you plan to back up a large amount of data, see *Prepare to Back Up a Large Amount of Data* on page 89.
- 3. Insert your USB storage drive into a USB port on the extender.

Note: If your USB drive has a power supply, you must use it when you connect the USB drive to the extender.

When you connect the USB drive to the extender USB port, it might take up to two minutes before it is ready for sharing. By default, the USB drive is available to all computers on your local area network (LAN).

- 4. On your Mac computer, select Go > Connect to Server
- 5. In the Server Address field, type smb://readyshare as the server address.
- 6. Click the **Connect** button.

- 7. When prompted to enter your name and password, select the **Guest** radio button.
- 8. Click the **Connect** button.

A list of connected devices displays. This list includes the name admin if you log in as admin.

- 9. From the Apple menu, select System Preferences.
- **10.** Open Time Machine.
- 11. Click the Select Disk button and select your USB drive from the list.
- 12. Click the Use for Backup button.

- **13.** When prompted to enter your name and password, select the **Guest** radio button.
- 14. Click the **Connect** button.

When the setup is complete, the Mac automatically schedules a full backup. You can back up immediately if you want.

Control Access to the USB Drive

You can specify the device name, workgroups, and network folders for your USB device. From your own network, you can access the USB drive over HTTP and, if you enable it, over FTP. You cannot access the USB drive over HTTP or FTP from outside your network.

> To specify the USB access settings:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

Note: If you do not see the USB partition that you want in the Time Machine disk list, go to Finder and click that USB partition. Then it displays in the Time Machine list.

4. Select USB Storage > Advanced Settings.

Smart Setup	USB S	Storage (Advanced Se	ttings)					
Add WPS Client				G Refresh	Apply ►			
▶ Settings								
▼USB Storage	Network/Device Name :			readyshare				
Basic Settings	Workgroup :			Workgroup				
Advanced Settings	Enable	Access Method		Link	Port			
Media Server		Network Neighborhood/MacS	hare	\\readyshare				
► Maintenance	V	HTTP	http://19	32,168.100.183/sha	res 80			
▶ Advanced		FTP	ftp://19	2.168.100.183/shar	es 21			
	Availabl	e Network Folders						
		Share Name	Read Access	Write Access	Folder Name	Volume Name	Total Space	Free Space
	۲	%readyshare\USB_Storage	All - no passwi	All ord - no password	U1	STORE N GO	3.70	2.7G
	₹ E	dit Create Network Fo	older	X Delete				

5. Specify access to the USB storage device as described in the following table:

Setting	Description				
Network Device Name	The name that is used to access the USB device. The default name is readyshare.				
Workgroup	The workgroup name, if you are using a Windows workgroup rather than a domain. The name works only in an operating system that supports NetBIOS, such as Microsoft Windows.				
Access Method, Link,	Select the check boxes for the access methods that you want to allow:				
and Port	 Network Neighborhood/MacShare. This access method is enabled by default. HTTP. This access method is enabled by default over port 80. The link to access the USB device over HTTP on your network (but not from outside your network) is http://<ip-address>/readyshare, in which <ip-address> is the IP address that has been assigned to the extender. You can type this link in the address bar of a browser window.</ip-address></ip-address> 				
	 FTP. This access method is disabled by default. If you enable this access method, the port for FTP communication is number 21. The link to access the USB device over FTP on your network (but not from outside your network) is ftp://<ip-address>/readyshare, in which <ip-address> is the IP address that has been assigned to the extender. You can type this link in the address bar of a browser screen.</ip-address></ip-address> 				

6. If you changed the settings, click the **Apply** button.

Your changes are saved.

Use FTP Within the Network

File Transfer Protocol (FTP) lets you send and receive large files faster. By default, FTP is disabled on the extender.

> To set up FTP access:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select USB Storage > Advanced Settings.

Smart Setup	USB Storage (Advanced Settings)							
Add WPS Client			1	G Refresh	Apply ►			
▶ Settings								
▼USB Storage	Network	ADevice Name :	r	eadyshare				
Basic Settings	Workgroup :			Vorkgroup				
Advanced Settings	Enable	Access Method		Link Port				
Media Server		Network Neighborhood/MacSha	are (weadyshare				
▶ Maintenance		нттр	http://192	168.100.183/shar	<u>es</u> 80			
▶ Advanced		FTP	ftp://192.	168.100.183/share	<u>es</u> 21			
	Available	e Network Folders						
		Share Name	Read Access	Write Access	Folder Name	Volume Name	Total Space	Free Space
	۲	Nreadyshare\USB_Storage	All no password	All - no password	UΛ	STORE N GO	3.70	2.70
	≥ Ec Sut	lit Create Hetwork Fold	der X	Delete				

5. Select the FTP check box.

By default, the **FTP** check box is cleared.

6. Click the Apply button.

Your changes are saved.

View Network Folders on a USB Drive

You can view the network folders on the USB storage device. If you have not yet used the extender to create any network folders, only the default network folder is displayed.

> To view network folders:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select USB Storage > Advanced Settings.

Smart Setup	USB Storage (Advanced Settings)							
Add WPS Client				G Refresh	Apply ►			
▶ Settings			-					
•USB Storage	Network	k/Device Name :	re	radyshare				
Basic Settings	Workgroup :			Workgroup				
Advanced Settings	Enable	Access Method Link		Port				
Media Server		Network Neighborhood/MacSha	d/MacShare \\readyshare		107			
• Maintenance		HTTP	HTTP http://192.168.100.183/share		res 80			
Advanced		FTP	ftp://192.168.100.183/shares		<u>es</u> 21			
	Available	e Network Folders						
		Share Name	Read Access	Write Access	Folder Name	Volume Name	Total Space	Free Space
	۲	Nreadyshare\USB_Storage	All no password	All - no password	UA.	STORE N GO	3.76	2.70
	€ Ec	lit Create Network Fold	er XI	Delete				

The Available Networks Folders table shows the network folders on the USB device. The following table describes the columns of the Available Networks Folders table onscreen.

Column	Description
Share Name	The default share name is USB_Storage. If Not Shared is displayed, the default share has been deleted, and no other share for the root folder exists.
Read Access	The read and write permissions and access controls on the network folder.
Write Access	All – no password (which is the default setting) allows all users access to the network folder. The password for admin is the same one that you use to log in to the extender.
Folder Name	The full path of the network folder.
Volume Name	The volume name from the storage device.

Column	Description
Total Space	The total space of the storage device.
Free Space	The available space of the storage device.

Add a Network Folder on a USB Drive

You can add network folders on the USB storage device.

> To add a network folder:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select USB Storage > Advanced Settings.

Smart Setup	USB S	Storage (Advanced Se	ttings)					
Add WPS Client			1	G Refresh	Apply ►			
▶ Settings								
▼USB Storage	Network	k/Device Name :	0	readyshare				
Basic Settings	Workgr	Workgroup :		Workgroup				
Advanced Settings	Enable	Access Method	Access Method		Port			
Media Server		Network Neighborhood/MacS	hare)	\readyshare	107			
Maintenance	~	HTTP http://192.168.100.		.168.100.183/shar	<u>es</u> 80			
▶ Advanced		FTP	ftp://192.	168.100.183/share	es 21			
	Availabl	e Network Folders						
		Share Name	Read Access	Write Access	Folder Name	Volume Name	Total Space	Free Space
	۲	\\readyshare\USB_Storage	All - no passwor	All - no password	U٩	STORE N GO	3.76	2.70
	≥ Ed Sat	dit Create Network Fo	older X	Delete				

5. Click the Create Network Folder button.

USB Device	U: (STORE N GO) 💌
Folder	Browse
Share Name	
Read Access	All - no password 💌
Write Access	All - no password 💌

- **Note:** If the Create Network Folder screen does not display, your web browser might be blocking pop-ups. If it is, change the browser settings to allow pop-ups.
- 6. Specify the network folder as described in the following table:

Setting	Description
USB Device	From the USB Device menu, select the USB drive.
	Note: If you connect a USB hub to the USB port of the extender, the USB Device menu can show more than one USB device.
Folder	Select a folder:
	1. Click the Browse button.
	2. Navigate to the folder that you want to select.
	3. Click the OK button.
	The folder displays in the Folder field.
Share Name	Type the name of the share.
Read Access	Select one of the following read access settings:
	• All – no password. To read files from the USB device, you do not need to enter a password. This is the default setting.
	• admin . To read files from the USB device, you must enter the password that you use to log in to the extender.
Write Access	Select one of the following write access settings:
	• All – no password. To write files to the USB device, you do not need to enter a password. This is the default setting.
	• admin . To write files to the USB device, you must enter the password that you use to log in to the extender.

7. Click the **Apply** button.

The folder is added on the USB device.

Change a Network Folder on a USB Drive

You can change a network folder on the USB storage device.

> To change a network folder:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select USB Storage > Advanced Settings.

Smart Setup	USB Storage (Advanced Settings)							
Add WPS Client				Refresh	Apply ►			
▶ Settings)		-					
▼USB Storage	Network	Device Name :	re	adyshare				
Basic Settings	Workgroup :			orkgroup				
Advanced Settings	Enable	Access Method	-	Link	Port			
Media Server		Network Neighborhood/MacShai	re Wr	eadyshare	-			
Maintenance		HTTP	http://192.1	68.100.183/shar	es 80			
Advanced		FTP	ftp://192.1	68.100.183/share	es 21			
	Available	e Network Folders Share Name	Read Access	Write Access	Folder Name	Volume Name	Total Space	Free Space
	۲	\lreadyshare\USB_Storage	All no password	All - no password	U.1			
	0	\\readyshare\USB_NEW	All no password	All - no password	U:\Music	STORE N GO	3.7G	2.76
	♪ Ed Sat	lit Create Network Fold	er X	Delete				

5. Select the folder that you want to edit by selecting its associated radio button.

6. Click the Edit button.

USB Device	U: (STORE N GO)	
File System	FAT	
Folder	U\\ Browse	
Share Name	USB_Storage	
Read Access	All - no password 💌	
Write Access	All - no password 💌	
Apply		

- **Note:** If the Edit Network Folder screen does not display, your web browser might be blocking pop-ups. If it is, change the browser settings to allow pop-ups.
- 7. Change the network folder as described in the following table:

Setting	Description
USB Device	From the USB Device menu, select the USB drive.
	Note: If you connect a USB hub to the USB port of the extender, the USB Device menu can show more than one USB device.
File System	The file system that the extender has detected. You cannot change this information.
Folder	Select a folder:
	1. Click the Browse button.
	2. Navigate to the folder that you want to select.
	3. Click the OK button.
	The folder displays in the Folder field.
Share Name	Type the name of the share.
Read Access	 Select one of the following read access settings: All – no password. To read files from the USB device, you do not need to enter a password. This is the default setting. admin. To read files from the USB device, you must enter the password that you use to log in to the extender.
Write Access	 Select one of the following write access settings: All – no password. To write files to the USB device, you do not need to enter a password. This is the default setting. admin. To write files to the USB device, you must enter the password that you use to log in to the extender.

8. Click the Apply button.

Your changes are saved.

Approve USB Devices

For more security, you can set up the extender to share only USB devices that you approve.

> To approve USB devices:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select Advanced > USB Settings.

Smart Setup	USB Settings	
Add WPS Client	Appty ►	
▶ Settings		
►USB Storage	Enable any USB Device connected to the USB port ④ Yes 〇 No	Approved Devices
▶ Maintenance		
▼Advanced		
Wireless Settings		
Operating Mode		
USB Settings		

By default the **Yes** radio button is selected. This setting lets you connect and access all your USB drives.

5. Click the Approved Devices button.

Smart Setup	USB Driv	e Approved Devices		
Add WPS Client			Refresh Apply >	
▶ Settings				
▶USB Storage	Allow of	nly approved devices		
▶ Maintenance	Approved U	ISB Devices		
▼Advanced		Volume Name	Device Name	Capacity
Wireless Settings Operating Mode USB Settings	۲	STORE N GO	Verbatim STORE N GO	3.7GB
Coo seamys	Available U	SB Devices Volume Name	Device Name	Capacity
		Seagate Backup Plus Drive	Seagate Backup+ BK	931.5GB
		eergale particip Filds brive	+Add	001.000

The approved and available USB devices display. The previous figure shows one approved device and one available device that is not yet approved.

6. In the Available USB Devices table, select the drive that you want to approve.

Note: If you connect a USB hub to the USB port of the extender, the Available USB Devices table can show more than one USB device.

- 7. Click the Add button.
- 8. Select the Allow only approved devices check box.
- 9. Click the Apply button.

The USB device is added to the Approved USB Devices table. Your change takes effect.

- 10. To approve another USB device:
 - a. Select USB Storage > Basic Settings.
 - **b.** Click the **Safely Remove USB Device** button for the currently connected USB device.
 - c. Connect the other USB device.
 - d. Click the Refresh button.
 - e. Repeat Step 4 through Step 9.

Safely Remove a USB Drive

Before you physically disconnect a USB drive from the extender USB port, log in to the extender and take the drive offline.

> To remove a USB disk drive safely:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type admin for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

- 4. Select USB Storage > Basic Settings.
- 5. Click the Safely Remove USB Device button.

The drive goes offline.

6. Physically disconnect the USB drive.

Use the Extender as a Media Server

6

This chapter contains the following sections:

- Specify ReadyDLNA Media Server Settings
- Play Media from a USB Drive on TiVo

Note: For information about how to connect the USB drive and to specify its settings, see *Chapter 5, Share a USB Drive That Is Attached to the Extender.*

Specify ReadyDLNA Media Server Settings

By default, the extender functions as a ReadyDLNA media server, which lets you stream music and movies from an attached USB device to DLNA/UPnP AV-compliant media players, such as Xbox360, Playstation, and NETGEAR media players.

> To specify media server settings:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select USB Storage > Media Server.

Smart Setup	Media Server (Settings	;)		
Add WPS Client		A	pply ►	
► Settings				
▼USB Storage	Enable Media Server			
Basic Settings Advanced Settings	Enable TiVo [®] support Media Server Name:	ReadyDLNA	EX6200	
Media Server	Content Scan			
► Maintenance	 Automatic (when new files 	added)		
► Advanced				

5. Specify the settings as described in the following table.

Setting	Description
Enable Media Server	Select this check box to enable the extender to function as a media server. (By default, this check box is already selected.)
Enable TiVo support	Select this check box to enable the extender to play ReadyNAS media on your TiVo device. (By default, this check box is already selected.) For more information, see the <i>Play Media from a USB Drive on TiVo</i> on page 102.
Media Server Device Name	Specify the name of the media server. The default name is ReadyDLN.
Content Scan	Select this check box to enable the extender to automatically scan and detect media files that are added to the attached USB device. (By default, this check box is already selected.)
	Note: The extender scans only shared folders that have full read access without a password.

6. Click the Apply button.

Your changes are saved.

Play Media from a USB Drive on TiVo

You can set up your TiVo to access media files stored on a USB device that is connected to your extender. The TiVo must be on the same network as the extender. This feature supports the following file formats:

- Video. See and play mpeg1, and mpeg2 files.
- Music. See and play MP3 files.
- **Pictures**. View images in jpg format.

You can use the TiVo (Series 2 and up) Home Media Option to play photos and music on your Windows or Mac computer in your TiVo user interface.

> To set up the extender to work with TiVo:

- 1. On your computer, launch an Internet browser such as Mozilla Firefox or Microsoft Internet Explorer.
- 2. In the address field of your browser, enter www.mywifiext.net.

You are prompted to enter a user name and password.

3. Type **admin** for the user name and type your password.

If you have not yet personalized your password, type **password** for the password.

4. Select USB Storage > Media Server.

Smart Setup	Media Server (Settings)		
Add WPS Client		A	pply ►	
▶ Settings)	6		
▼USB Storage	Enable Media Server			
Basic Settings Advanced Settings	Enable TiVo [®] support Media Server Name:	ReadyDLNA	EX6200	
Media Server	Content Scan			
▶ Maintenance	Automatic (when new files	added)		
▶ Advanced				

- 5. If it is not yet selected, select the Enable TiVo support check box.
- 6. Click the Apply button.

Your changes are saved.

> To play videos:

1. On the TiVo, select TiVo Central > My Shows.



2. Go to the bottom of the list and select the EX6200.

(The following figure shows not the EX6200 but the R7000.)

T				
	1080p_Main@High_40.7-45	Thu	7/30	
	hd_dolby_bit_harvest_lossless	Thu	6/11	
	MPEG2var 6216K - Corenell	Fri	12/21	
	MPEG2 2361K - Ferry Corsten	Wed	7/4	
	HD Recordings (108)			
Po	TiVo Suggestions (465)			
P	Recently Deleted (22)			

- > To play music or view photos:
 - 1. On the TiVo, select TiVo Central > Music, Photos, & Showcases.



2. Select an item to play or watch.

(The following figure shows not the EX6200 but the R7000.)



> To copy TiVo files to a computer:

Use a TiVo Desktop accessory, available at *https://www.tivo.com/shop/accessories#streaming-software*.

7

Share a USB Printer Through the Extender

The ReadySHARE Printer utility lets you share a USB printer that is connected to the USB port on your extender. You can share this USB printer among the Windows and Mac computers on your network.

This chapter contains the following sections:

- Install the Printer Driver and Cable the Printer
- Download the ReadySHARE Printer Utility
- Install the ReadySHARE Printer Utility
- Use the Shared Printer
- View or Change the Status of a Printer
- Use the Scan Feature of a Multifunction USB Printer
- Change NETGEAR USB Control Center Settings

Note: For more information about ReadySHARE features, visit *www.netgear.com/readyshare.*

Note: For information about how to connect the USB drive and to specify its settings, see *Chapter 5, Share a USB Drive That Is Attached to the Extender.*

Install the Printer Driver and Cable the Printer

Some USB printer manufacturers (for example, HP and Lexmark printers) request that you do not connect the USB cable until the installation software prompts you to do so.

- > To install the driver and cable the printer:
 - 1. On each computer on your network that shares the USB printer, install the driver software for the USB printer.

If you do not have the printer driver, contact the printer manufacturer.

2. Use a USB printer cable to connect the USB printer to the extender USB port.

Download the ReadySHARE Printer Utility

The utility works on Windows and Mac computers.

- > To download the utility:
 - 1. Visit www.netgear.com/readyshare.



- 2. In the ReadySHARE Printer pane, click the PC Utility or Mac Utility link.
- 3. Follow the onscreen instructions to download the file.

Install the ReadySHARE Printer Utility

You must install the ReadySHARE Printer utility on each computer on which you want to share the USB printer. After you install it, the utility displays as NETGEAR USB Control Center on your computer.

- > To install the utility on a computer:
 - Double-click the ReadySHARE Printer utility setup file that you downloaded. The InstallShield wizard displays.

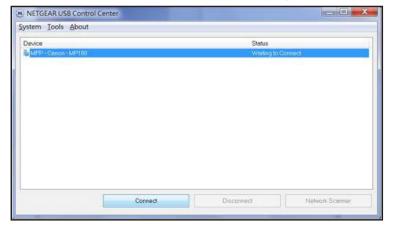
NETGEAR USB Control Cer	nter - InstallShield Wizard				
2	Welcome to the InstallShield Wizard for NETGEAR USB Control Center				
	The InstallShield(R) Wizard will install NETGEAR USB Control Center on your computer. To continue, dick Next.				
	WARNING: This program is protected by copyright law and international treaties.				
	< Back Next > Cancel				

2. Follow the wizard instructions to install NETGEAR USB Control Center.

After the InstallShield Wizard completes the installation, the NETGEAR USB Control Center prompts you to select a language.



3. Select a language from the list and click the **OK** button.



The NETGEAR USB Control Center displays the main screen.

- **Note:** Some firewall software, such as Comodo, blocks NETGEAR USB Control Center from accessing the USB printer. If you do not see the USB printer displayed in the screen, you can disable the firewall temporarily to allow the utility to work.
- 4. Select the printer and click the **Connect** button.

The printer status changes to Manually connected by *Mycomputer*. Now, only your computer can use the printer.

5. Click the **Disconnect** button.

The status changes to Available. Now all computers on the network can use the printer.

- **Note:** After you click the **Connect** and **Disconnect** buttons once, the utility automatically manages the printing queue and handling.
- 6. To exit the utility, select **System > Exit**.

Use the Shared Printer

After you have installed the ReadySHARE Printer utility, by default, when you log on to Windows, the utility starts automatically and runs in the background.

- > To manually connect and print from the printer that is connected to the extender:
 - 1. On your computer, click the NETGEAR USB Control Center icon m.

The main screen displays.

2. Click the **Connect** button.

The printer status changes to Manually connected by *Mycomputer*. Now, only the computer you are using can use this printer.

3. Use the print feature in your application to print your document.

- 4. To release the printer connection so that all computers on the network can use it, click the **Disconnect** button.
- > To print and release the connection to the printer that is connected to the extender:
 - 1. To print your document from your computer, use the print feature in your application.

The NETGEAR USB Control Center automatically connects your computer to the USB printer and prints the document. If another computer is already connected to the printer, your print job goes into a queue to wait to be printed.

2. If your document does not print, use the NETGEAR USB Control Center to check the status.

View or Change the Status of a Printer

The NETGEAR USB Control Center displays the status of the USB printer that is connected to the extender. You can view the status or change the status manually.

> To view or change the status:

1. On your computer, click the NETGEAR USB Control Center icon m.

The main screen displays.

DETGEAR USB Control Center			
<u>System T</u> ools <u>A</u> bout			
Device	Status		
🐌 Audio - 🗉 - Logitech Speaker	Manually Connected by netgear-8dc0086		
MFP - HP - Photosmart C5200 series	Available		

The Status column shows the status for each device:

- **Available**. No print jobs are in process. You can use the USB printer from any computer in the network.
- **Connected**. Your computer is connected to the printer. When your print job is done, the printer connection is released.
- Manually Connected by. Only the connected computer can use the printer.
- Waiting to Connect. Your computer is not connected to the shared printer yet.
- 2. To change the status from Manually Connected by another computer to Available, click the **Disconnect** button.

The printer connection is released and the status changes to Available.

3. To change the status from Waiting to Connect to Available, click the **Connect** button.

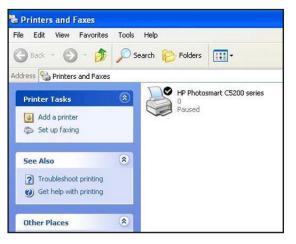
The printer status changes to Manually connected by my computer. Now, only your computer can use the printer.

4. To allow the printer to be shared, click the **Disconnect** button.

The printer connection is released and the status changes to Available.

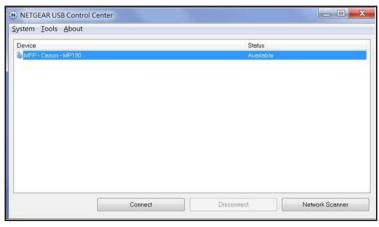
Use the Scan Feature of a Multifunction USB Printer

If the USB printer that is connected to the extender supports scanning, you can also use the USB printer for scanning. For example, the USB printer displayed in the Windows Printers and Faxes screen is ready for print jobs.





- > To use the scan feature of a multifunction USB printer:
 - 1. Launch the NETGEAR USB Control Center.
 - 2. Make sure that the printer status shows as Available.
 - 3. Click the Network Scanner button.



The scanner screen displays so that you can use the USB printer for scanning.

Change NETGEAR USB Control Center Settings

You can stop the NETGEAR USB Control Center from starting automatically when you log in to Windows. You can also change the language and specify the time-out to release the connection to the USB printer that is connected to the extender.

> To turn off automatic NETGEAR USB Control Center startup:

- 1. Launch the NETGEAR USB Control Center.
- 2. Select Tools > Configuration.

Automatically ex	ecute when	logging on \	√indows	
imeout				
10 minute (1-60	0)			
anguage				
English German				^
Swedish				
French				
Dutch				100
Italian				~
Note: Language se	tting will take	effect on n	ext execution.	

- 3. Clear the Automatically execute when logging on Windows check box.
- 4. Click the OK button.

Your changes are saved.

> To change the language:

- 1. Launch the NETGEAR USB Control Center.
- 2. Select Tools > Configuration.
- 3. In the Language list, select a language.
- 4. Click the OK button.

The next time NETGEAR USB Control Center starts, the language changes.

> To specify the time-out:

- 1. Launch the NETGEAR USB Control Center.
- 2. Select Tools > Configuration.
- 3. In the **Timeout** field, type the number of minutes.

The time-out period is the number of minutes that a computer holds its connection to the USB printer when the connection is not being used.

4. Click the OK button.

Your changes are saved.

FAQs and Troubleshooting

This chapter covers the following topics:

- FAQs
- You Cannot Connect to the Extender
- You Cannot Join a WiFi Network and Receive an Error Message
- Improve the Connection Between the Extender and the WiFi Router

FAQs

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

1. Question. Does the extender work if I connect it to my WiFi router with an Ethernet cable?

Answer. No, the extender is designed only to connect over WiFi to a WiFi router.

2. Question. What are the default user name and password to log in to the extender?

Answer. If you are online at **www.mywifiext.net**, you can use the following user name and password to log in:

- User name. admin
- **Password**. password
- **3.** Question. When I try to connect to the network, Smart Setup keeps asking me for my passphrase, and I am sure I've entered the correct passphrase. What can I do?

Answer. It is likely that the extender is placed at the borderline of the range that the WiFi router covers. For more information, see *How to Position the Extender* on page 15 and *Improve the Connection Between the Extender and the WiFi Router* on page 116.

4. Question. I receive an error message on the Review Settings screen on Smart Setup. What can I do?

Answer. Make sure that your computer or mobile device is connected to the extender by using the SSID and the passphrase that you have set up and clicking the **Refresh** button in your browser. You should be returned to Smart Setup.

5. Question. I connected to NETGEAR_EXT and launched a browser, but why can I not see Smart Setup?

Answer. First, make sure that your device is set up to use DHCP. Second, make sure that the Device to Extender Connection LED is green. Finally, relaunch the browser and enter **www.mywifiext.net**.

6. Question. I have enabled a WiFi MAC filter (WiFi access control or ACL) on my WiFi router. What should I do when installing the extender?

Answer. 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 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 get the translated MAC address:

- **a.** Disable the MAC filter on your router.
- **b.** Turn on the extender and connect all of your WiFi devices to the extender.
- c. Make sure that the Link Rate LED remains lit.

- **d.** Log in to the router and check the attached devices on the Attached Devices or similar screen.
- e. Add any MAC addresses that begin with 02:0F:B5 to your router's MAC filter table.
- 7. Question. My router security is WEP, and I entered the wrong passphrase or security key on the extender. I cannot access the extender anymore. What can I do?

Answer. The extender cannot detect whether the WEP passphrase is correct. If you entered the wrong passphrase, your WiFi device cannot get the IP address from the extender. You must reset the extender to the factory defaults to get the IP address back.

8. Question. Is seamless roaming supported? During a VoIP call, when I move to a different location, the call is dropped. What should I do?

Answer. No, the extender does not support seamless roaming. You might notice performance issues if your WiFi device (laptop, smartphone, or tablet) connects to a different WiFi network. For example, you might connect to the extender WiFi network, begin a call, and then move to the location of your existing WiFi network. Your WiFi device automatically connects to the network in your current location, which takes a few seconds and might cause your call to be dropped. To prevent this situation, decide which WiFi network you want to use for your VoIP call, and stay within the range of that network.

You Cannot Connect to the Extender

If you have trouble connecting to the extender, determine what prevents you from connecting:

- Make sure that you use the correct user name and password to log in:
 - User name. admin
 - Password. password
- 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 if the Link Rate LED is off or red. For more information, see *Improve the Connection Between the Extender and the WiFi Router* on page 116.
- If you cannot get a WiFi connection working, you can use an Ethernet cable to connect your computer to the extender. For more information, see *Access the Extender over Ethernet and Use Smart Setup* on page 26.

You 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:

- You might have typed the network name, passphrase, or key incorrectly. Use Smart Setup (see *Run Smart Setup Again After Initial Setup* on page 67) to select a WiFi network from the list with detected networks, 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 up. Make sure that the WiFi router is turned on. If possible, move the extender closer to the WiFi router. For more information, see *Improve the Connection Between the Extender and the WiFi Router* on page 116.
- If the extender Link Rate LED is red, a poor WiFi connection exists between the WiFi router and the extender. 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. For more information, see *Improve the Connection Between the Extender and the WiFi Router* on page 116.

If you use Smart Setup, and the extender cannot connect to the WiFi router or cannot get an IP address from the WiFi router, or the WiFi router is not connected to the Internet, Smart Setup might display the following message:

You are not able to connect to Internet. Click "Continue" to run through setup or "Exit" to manually configure the connection.

Either run Smart Setup again, exit Smart Setup and configure the connection manually (see *Connect the Extender to a WiFi Network Without Using Smart Setup* on page 38), or try Smart Setup again later (see *Run Smart Setup Again After Initial Setup* on page 67).

Improve the Connection Between the Extender and the WiFi Router

The extender LEDs can help you tell whether the extender is correctly set up and working as it should.

- > To improve the connection between the extender and the WiFi router:
 - 1. Move the extender closer to the WiFi router or to a different spot where it provides a better line of sight.

You might need to unplug the extender, plug it in again at its new location, and restart it. Unless the extender is outside the range of your WiFi router, the extender connects automatically to the WiFi router.

2. As you move the extender, continue to check the Link Rate LED and the Device to Extender LED on the top panel until you find a location where the Link Rate LED is green or amber, and the Device to Extender LED is green.

The following tables describe how the LEDs show the quality of the connection.

2.4 GHz LED Status	LED Color	Performance
Both the Link Rate LED and the Device to Extender LED are green.	2.4GHz and	The extender provides the best performance.
The Link Rate LED is amber and the Device to Extender LED is green.	2.4GHz and	The extender provides a workable performance.
The Link Rate LED is red.	2.4GHz	The extender provides a poor performance.
The Link Rate LED is off.		The extender cannot function.

5 GHz LED Status	LED Color	Performance
Both the Link Rate LED and the Device to Extender LED are green.	sGHz and	The extender provides the best performance.
The Link Rate LED is amber and the Device to Extender LED is green.	sGHz and	The extender provides a workable performance.
The Link Rate LED is red.	5GHz	The extender provides a poor performance.
The Link Rate LED is off.		The extender cannot function.



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 76.

The following table shows the factory default settings.

Table 2.	Factory	default	settings
		aoraan	oottingo

Factory Settings		
Smart Setup		Enabled
WiFi	WiFi communication	Enabled
	WiFi network name (SSID)	NETGEAR_EXT
	Security	Disabled
	Transmission speed	Auto ¹
	Country/region	Varies by region
	Operating mode	802.11ac, 802.11n, 802.11g, 802.11b
	Data rate in the 2.4 GHz band	Up to 150 Mbps
	Data rate in the 5 GHz band	Up to 867 Mbps
DHCP		Client enabled

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

Technical and Environmental Specifications

The following table shows the technical and environmental specifications.

Technical Specifications		
Network protocol and standards compatibility	Data and routing protocols: TCP/IP, DHCP server and client, DNS relay, NAT (many-to-one), VPN pass-through (IPSec, PPTP)	
Power adapter	 North America (input): 120V, 60 Hz All regions (output): 12 VDC @ 2.5A 30W maximum 	
Physical specifications	 Dimensions: 8.5 by 5.75 by 1.3 in. (216 by 146 by 33 mm) Weight: 0.67 lb (302 g) 	
Environmental	 Operating temperature: 32° to 140°F (0° to 40°C) Operating humidity: 90% maximum relative humidity, noncondensing 	
Interface	 Local: 10BASE-T, 100BASE-TX, 1000BASE-TX, RJ-45 USB 3.0 802.11ac, 802.11n, 802.11a, 802.11g, 802.11b 	
Electromagnetic Emissions	Meets requirements of FCC Part 15 Class B.	

Table 3. Technical specifications