

**NETGEAR®**

User Manual

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## 4-Stream AX1800 WiFi 6 Router

Model RAX10

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# 1

## Hardware Setup

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This chapter contains the following sections:

- [Unpack your router](#)
- [Top panel LEDs](#)
- [Back panel](#)
- [Router label](#)
- [Position your router](#)
- [Wall-Mount Your Router](#)
- [Cable your router](#)

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



# Unpack your router

Your package contains the router, the power adapter, and an Ethernet cable.



Figure 1. Package contents






## Top panel LEDs

The status LEDs are located on the top of the router.



Figure 2. Top view

Table 1. LED descriptions

LED and Button	Description
Power LED 	<ul style="list-style-type: none"> <li>• <b>Solid green.</b> The router is ready.</li> <li>• <b>Solid amber.</b> The router is starting.</li> <li>• <b>Blinking amber.</b> The router is not ready, firmware is upgrading, or the <b>Reset</b> button was pressed.</li> <li>• <b>Off.</b> Power is not supplied to the router.</li> </ul>
Internet LED 	<ul style="list-style-type: none"> <li>• <b>Solid green.</b> The Internet connection is ready.</li> <li>• <b>Blinking green.</b> The port is sending or receiving traffic.</li> <li>• <b>Solid amber.</b> An Ethernet cable is connected to the Internet port but Internet is not accessible.</li> <li>• <b>Off.</b> No Ethernet cable is connected between the router and the modem.</li> </ul>
WiFi LED 	<ul style="list-style-type: none"> <li>• <b>Solid green.</b> The WiFi radios are on. You can connect to the router's WiFi network.</li> <li>• <b>Off.</b> The WiFi radios are turned off and you cannot use WiFi to connect to the router.</li> </ul>
Ethernet LED 	<ul style="list-style-type: none"> <li>• <b>Solid green.</b> The router detected a 1 Gbps link with a device that is connected to one of the router's Ethernet ports.</li> <li>• <b>Solid Amber.</b> The router detected a 10/100 Mbps link with a device that is connected to one of the router's Ethernet ports.</li> <li>• <b>Blinking green.</b> One of the router's Ethernet ports is sending or receiving traffic at 1 Gbps.</li> <li>• <b>Blinking amber.</b> One of the router's Ethernet ports is sending or receiving traffic at 10/100 Mbps.</li> <li>• <b>Off.</b> No device is connected to an Ethernet port.</li> </ul>
WPS LED 	<p>Pressing the <b>WPS</b> button on the back of the router lets your WPS-enabled device join your router's WiFi network without typing the WiFi password. The WPS LED blinks green during the WPS process and then lights solid green when the WPS-enabled device connects to your router's WiFi network.</p>

# Back panel

The following figure shows the connectors and buttons on the back of the router.



Figure 3. Rear panel

The rear side panels contains the following components:

1. **WPS button.** Pressing the **WPS** button lets WPS-enabled device join your router's WiFi network without typing the WiFi password.
2. **Internet port.** One Gigabit Ethernet RJ-45 WAN port to connect the router to an Internet modem such as a cable modem or DSL modem.
3. **Ethernet ports.** Four Gigabit Ethernet RJ-45 LAN ports. Use these ports to connect the router to devices that have an Ethernet LAN port.
4. **Reset button.** Pressing the **Reset** button resets the router. If the **Reset** button is pressed for at least 10 seconds and then released, the router returns to its factory settings.
5. **DC power connector.** Connect the power adapter that came in the product package to the DC power connector.

# Router label

The router label shows the login information, WiFi network name (SSID), password, serial number, and MAC address.

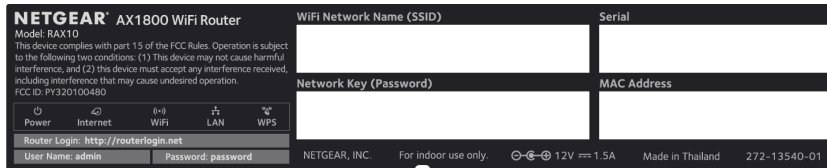


Figure 4. Router label

# Position your router

The router lets you access your network anywhere within the operating range of your WiFi network. However, the operating distance or range of your WiFi connection can vary significantly depending on the physical placement of your router.

In addition, position your router according to the following guidelines:

- Place your router near the center of the area where your computers and other devices operate, and within line of sight to your WiFi devices.
- Make sure that the router is within reach of an AC power outlet and near Ethernet cables for wired computers.
- Place the router in an elevated location, minimizing the number walls and ceilings between the router and your other devices.
- Place the router away from electrical devices such as these:
  - Ceiling fans
  - Home security systems
  - Microwaves
  - Computers
  - Base of a cordless phone
  - 2.4 GHz or 5 GHz cordless phones
- Place the router away from large metal surfaces, large glass surfaces, insulated walls, and items such as these:
  - Solid metal door

- Aluminum studs
- Fish tanks
- Mirrors
- Brick
- Concrete

The following factors might limit the range of your WiFi:

- The thickness and number of walls the WiFi signal passes through can limit the range.
- Other WiFi access points in and around your home might affect your router's signal. WiFi access points are routers, repeaters, WiFi range extenders, and any other devices that emit a WiFi signal for network access.

## Wall-Mount Your Router

You can wall-mount your router using the wall-mounting holes on the bottom of your router.

**Note:** We recommend using M3 x 20 mm screws.

Figure 5. Bottom of the router

**To wall-mount your router:**

1. Drill holes in the wall where you want to wall-mount your router.
2. Insert wall anchors in the holes.
3. Insert screws into the wall anchors, leaving 3/16 inch (0.5 cm) of each screw exposed.
4. Align the router's wall-mounting holes with the screws and mount your router.

## Cable your router

Power on your router and connect it to a modem.



Figure 6. Cable your router

**To cable your router:**

1. Unplug your modem, remove and reinsert the backup battery if it uses one, and then plug the modem back in.
2. Use the Ethernet cable to connect the modem to the yellow Internet port on the router.

**Note:** If your Internet connection does not require a modem, connect your main Ethernet cable to the yellow Internet port on the router.

3. Connect the power adapter to your router and plug the power adapter into an outlet. The router's Power LED lights solid green when the router is ready.

# 2

## Connect to the network and access the router

---

You can connect to the router's WiFi networks or use a wired Ethernet connection. This chapter explains the ways you can connect and how to access the router and log in.

The chapter contains the following sections:

- [Connect to the network](#)
- [Types of logins](#)
- [Use a web browser to access the router](#)
- [Install and manage your router with the Nighthawk app](#)
- [Change the language](#)



# Connect to the network

You can connect to the router's network through a wired or WiFi connection. If you set up your computer to use a static IP address, change the settings so that it uses Dynamic Host Configuration Protocol (DHCP).

## Connect to the network using a wired connection

You can connect your computer to the router using an Ethernet cable and join the router's local area network (LAN).

### **To connect your computer to the router with an Ethernet cable:**

1. Make sure that the router is receiving power (its Power LED is lit).
2. Connect an Ethernet cable to an Ethernet port on your computer.
3. Connect the other end of the Ethernet cable a LAN port on the router.  
Your computer connects to the local area network (LAN).

## Find and connect to the WiFi network

### **To find and select the WiFi network:**

1. Make sure that the router is receiving power (its Power LED is lit).
2. On your computer or WiFi device, find and select the WiFi network.  
The WiFi network name is on the router label.
3. Join the WiFi network and enter the WiFi password.  
The password is on the router label.  
Your device connects to the WiFi network.

## WiFi connection using WPS

You can connect your WPS-enabled device to the router's WiFi network with Wi-Fi Protected Setup (WPS) or you can find and select the WiFi network.

### **To use WPS to connect to the WiFi network:**

1. Make sure that the router is receiving power (its Power LED is lit).
2. Check the WPS instructions for your WPS-enabled device.
3. Press the **WPS** button on the router.

4. Within two minutes, on your WPS-enabled device, press its **WPS** button or follow its instructions for WPS connections.

Your WPS-enabled device connects to the WiFi network.

## Types of logins

Separate types of logins serve different purposes. It is important that you understand the differences so that you know which login to use when.

Several types of logins are associated with the router:

- **ISP login.** The login that your Internet service provider (ISP) gave you logs you in to your Internet service. Your ISP gave you this login information in a letter or some other way. If you cannot find this login information, contact your ISP.
- **WiFi network key, WiFi passphrase, or WiFi password.** Your router is preset with a unique WiFi network name (SSID) and password for WiFi access. This information is on the router label.
- **NETGEAR account login.** The free NETGEAR account that you need to register your router and manage your subscriptions. If you do not own a NETGEAR account, you can create one.
- **Router login.** The router login password that you need to log in to the router with the admin user name when you use a web browser to access the router.

## Use a web browser to access the router

When you connect to the network (either with WiFi or with an Ethernet cable), you can use a web browser to access the router to view or change its settings. When you access the router, the software automatically checks to see if your router can connect to your Internet service.

## Automatic Internet Setup

You can set up your router automatically, or you can use a web browser to access the router and set up your router manually. Before you start the setup process, get your ISP information and make sure that the computers and devices in the network are using the settings described here.

When your Internet service starts, your Internet service provider (ISP) typically gives you all the information needed to connect to the Internet. For DSL service, you might need the following information to set up your router:

- The ISP configuration information for your DSL account
- ISP login name and password
- Fixed or static IP address setting (special deployment by ISP; this setting is rare)

If you cannot locate this information, ask your ISP to provide it. When your Internet connection is working, you no longer need to launch the ISP login program on your computer to access the Internet. When you start an Internet application, your router automatically logs you in.

The NETGEAR installation assistant runs on any device with a web browser. Installation and basic setup takes about 15 minutes to complete.

### **To automatically set up your router:**

1. Make sure that the router is powered on.
2. Make sure that your computer or mobile device is connected to the router with an Ethernet cable (wired) or over WiFi with the preset security settings listed on the label.

**Note:** If you want to change the router's WiFi settings, use a wired connection to avoid being disconnected when the new WiFi settings take effect.

3. Launch a web browser.

The page that displays depends on whether you accessed the router before:

- The first time you set up the Internet connection for your router, the browser goes to **<http://www.routerlogin.net>** and the Configuring the Internet Connection page displays.
- If you already set up the Internet connection, enter **<http://www.routerlogin.net>** in the address field for your browser to start the installation process.

4. Follow the onscreen instructions.

The router connects to the Internet.

5. If the browser does not display the NETGEAR installation assistant, do the following:

- Make sure that the computer is connected to one of the LAN Ethernet ports or over WiFi to the router.
- Make sure that the router is receiving power and that its Power LED is lit.
- Close and reopen the browser or clear the browser cache.
- Browse to **<http://www.routerlogin.net>**.

- If the computer is set to a static or fixed IP address (this setting is uncommon), change it to obtain an IP address automatically from the router.
6. If the router does not connect to the Internet, do the following:
    - a. Review your settings. Make sure that you selected the correct options and typed everything correctly.
    - b. Contact your ISP to verify that you are using the correct configuration information.
    - c. Read [You cannot access the Internet](#) on page 133. If problems persist, register your router and contact NETGEAR Technical Support.

## Log in to the router

When you first connect to your router and launch a web browser, the browser automatically displays the router web interface. If you want to view or change settings for the router later, you can use a browser to log in to the router web interface.

### To log in to the router:

1. Launch a web browser from a computer or mobile device that is connected to the router network.
2. Enter **<http://www.routerlogin.net>**.

**Note:** You can also enter **<http://www.routerlogin.com>** or **<http://192.168.1.1>**. The procedures in this manual use **<http://www.routerlogin.net>**.

A login window opens.

3. Enter the router admin user name and password.  
The user name is **admin**. The password is the one that you specified the first time that you logged in. The user name and password are case-sensitive.  
The BASIC Home page displays.

## Install and manage your router with the Nighthawk app

With the Nighthawk app, you can easily install and manage your router. The app automatically updates the router to the latest firmware, allows you to personalize your WiFi network, and even helps register your router with NETGEAR.

The Nighthawk app is available for iOS and Android mobile devices.

### To install your router using the Nighthawk app:

1. To download the app, visit [Nighthawk-app.com](http://Nighthawk-app.com).
2. On your mobile device, tap **Settings > Wi-Fi** and find and connect to your router's WiFi network.  
Your router's WiFi network name (SSID) and network key (WiFi password) are on the router label.  
If the label includes a QR code, you can scan the QR code to join the router's WiFi network.
3. Launch the Nighthawk app on your mobile device.
4. Follow the prompts on the app to install your router and connect to the Internet.

## Change the language

By default, the language that displays when you log in to the router web interface is set to Auto.

### To change the language:

1. Launch a web browser from a computer or mobile device that is connected to the router network.
2. Enter **http://www.routerlogin.net**.  
A login window opens.
3. Enter the router admin user name and password.  
The user name is **admin**. The password is the one that you specified the first time that you logged in. The user name and password are case-sensitive.  
The BASIC Home page displays.
4. In the upper right corner, select a language from the menu.
5. When prompted, click the **OK** button to confirm this change.  
The page refreshes with the language that you selected.

# 3

## Specify Your Internet Settings

---

Usually, the quickest way to set up the router to use your Internet connection is to allow your router to detect the Internet connection automatically when you first access the router web interface. You can also customize and manually specify your Internet settings.

This chapter contains the following sections:

- [Use the Internet Setup Wizard](#)
- [Manually set up the Internet connection](#)
- [Specify IPv6 Internet connections](#)
- [Manage the MTU size](#)

# Use the Internet Setup Wizard

You can use the Setup Wizard to detect your Internet settings and automatically set up your router. The Setup Wizard is not the same as the pages that display the first time you connect to your router to set it up.

## To use the Setup Wizard:

1. Launch a web browser from a computer or mobile device that is connected to the router network.
2. Enter **http://www.routerlogin.net**.  
A login window opens.
3. Enter the router admin user name and password.  
The user name is **admin**. The password is the one that you specified the first time that you logged in. The user name and password are case-sensitive.  
The BASIC Home page displays.
4. Select **ADVANCED > Setup Wizard**.  
The Setup Wizard page displays.
5. Select the **Yes** radio button.  
If you select the **No** radio button, you are taken to the Internet Setup page (see [Manually set up the Internet connection](#) on page 23).
6. Click the **Next** button.  
The Setup Wizard searches your Internet connection for servers and protocols to determine your Internet configuration.

# Manually set up the Internet connection

You can view or change the router's Internet connection settings.

## Specify an Internet connection without a login

### To specify the Internet connection settings:

1. Launch a web browser from a computer or mobile device that is connected to the router network.
2. Enter **http://www.routerlogin.net**.  
A login window opens.

3. Enter the router admin user name and password.  
The user name is **admin**. The password is the one that you specified the first time that you logged in. The user name and password are case-sensitive.  
The BASIC Home page displays.
4. Select **Internet**.  
The Internet Setup page displays.
5. In the Does your Internet connection require a login? section, leave the **No** radio button selected.
6. If your Internet connection requires an account name or host name, click the **Edit** button in the Account Name section and enter the account name.
7. If your Internet connection requires a domain name, type it in the **Domain Name (If Required)** field.  
For the other sections on this page, the default settings usually work, but you can change them.
8. Select an Internet IP Address radio button:
  - **Get Dynamically from ISP**. Your ISP uses DHCP to assign your IP address. Your ISP automatically assigns these addresses.
  - **Use Static IP Address**. Enter the IP address, IP subnet mask, and the gateway IP address that your ISP assigned. The gateway is the ISP router to which your router connects.
9. Select a Domain Name Server (DNS) Address radio button:
  - **Get Automatically from ISP**. Your ISP uses DHCP to assign your DNS servers. Your ISP automatically assigns this address.
  - **Use These DNS Servers**. If you know that your ISP requires specific servers, select this option. Enter the IP address of your ISP's primary DNS server. If a secondary DNS server address is available, enter it also.
10. Select a Router MAC Address radio button:
  - **Use Default Address**. Use the default MAC address.
  - **Use Computer MAC Address**. The router captures and uses the MAC address of the computer that you are now using. You must use the one computer that the ISP allows.
  - **Use This MAC Address**. Enter the MAC address that you want to use.
11. Click the **Apply** button.  
Your settings are saved.



12. Click the **Test** button to test your Internet connection.

If the NETGEAR website does not display within one minute, see [You cannot access the Internet](#) on page 133.

## Specify an Internet connection that uses a login

### To view or change the basic Internet setup:

1. Launch a web browser from a computer or mobile device that is connected to the router network.
2. Enter **http://www.routerlogin.net**.  
A login window opens.
3. Enter the router admin user name and password.  
The user name is **admin**. The password is the one that you specified the first time that you logged in. The user name and password are case-sensitive.  
The BASIC Home page displays.
4. Select **Internet**.  
The Internet Setup page displays.
5. In the Does your Internet connection require a login? section, select the **Yes** radio button.
6. From the **Internet Service Provider** menu, select the encapsulation method: **PPPoE**, **L2TP**, or **PPTP**.
7. In the **Login** field, enter the login name that your ISP gave you.  
This login name is often an email address.
8. In the **Password** field, type the password that you use to log in to your Internet service.
9. If your ISP requires a service name, type it in the **Service Name (if Required)** field.
10. From the **Connection Mode** menu, select **Always On**, **Dial on Demand**, or **Manually Connect**.
11. To change the number of minutes until the Internet login times out, in the **Idle Timeout (In minutes)** field, type the number of minutes.  
This is how long the router keeps the Internet connection active when no one on the network is using the Internet connection. A value of 0 (zero) means never log out.
12. Select an Internet IP Address radio button:

- **Get Dynamically from ISP.** Your ISP uses DHCP to assign your IP address. Your ISP automatically assigns these addresses.
- **Use Static IP Address.** Enter the IP address, IP subnet mask, and the gateway IP address that your ISP assigned. The gateway is the ISP router to which your router connects.

13. Select a Domain Name Server (DNS) Address radio button:

- **Get Automatically from ISP.** Your ISP uses DHCP to assign your DNS servers. Your ISP automatically assigns this address.
- **Use These DNS Servers.** If you know that your ISP requires specific servers, select this option. Enter the IP address of your ISP's primary DNS server. If a secondary DNS server address is available, enter it also.

14. Select a Router MAC Address radio button:

- **Use Default Address.** Use the default MAC address.
- **Use Computer MAC Address.** The router captures and uses the MAC address of the computer that you are now using. You must use the one computer that the ISP allows.
- **Use This MAC Address.** Enter the MAC address that you want to use.

15. Click the **Apply** button.

Your settings are saved.

16. Click the **Test** button to test your Internet connection.

If the NETGEAR website does not display within one minute, see [You cannot access the Internet](#) on page 133.

## Specify IPv6 Internet connections

You can set up an IPv6 Internet connection if the router does not detect it automatically.

### To set up an IPv6 Internet connection:

1. Launch a web browser from a computer or mobile device that is connected to the router network.
- 2.



































































































































































































































































