







## LED descriptions

LED	Description
 Link Status	<p>This LED indicates the WiFi connection between the extender and the router.</p> <ul style="list-style-type: none"><li>• <b>Solid white.</b> Best connection.</li><li>• <b>Solid amber.</b> Good connection.</li><li>• <b>Solid red.</b> Poor connection.</li><li>• <b>Off.</b> No connection.</li><li>• <b>Blinking white.</b> The extender resets to its factory default settings.</li></ul>
 Maximum Throughput	<ul style="list-style-type: none"><li>• <b>Solid white.</b> The extender uses the 5 GHz WiFi band for backhaul.</li><li>• <b>Off.</b> The extender uses the 2.4 GHz WiFi band for backhaul.</li><li>• <b>Blinking white.</b> The extender is resetting to its factory default settings</li></ul>
<b>2.4GHz</b> <b>5GHz</b> 2.4 GHz and 5 GHz	<ul style="list-style-type: none"><li>• <b>Solid white.</b> The 2.4 or 5 GHz radio is operating.</li><li>• <b>Off.</b> The 2.4 or 5 GHz radio is off.</li><li>• <b>Blinking white (5 GHz LED only).</b> The extender is resetting to its factory default settings.</li></ul>
 Client Link	<ul style="list-style-type: none"><li>• <b>Solid white.</b> The extender is connected to a WiFi-enabled computer or mobile device.</li><li>• <b>Off.</b> The extender is not connected to a WiFi-enabled computer or mobile device.</li></ul>
 USB	<ul style="list-style-type: none"><li>• <b>Solid white.</b> A USB device is connected to the extender.</li></ul>
 WPS	<ul style="list-style-type: none"><li>• <b>Blinking white.</b> A WPS connection is being established.</li><li>• <b>Solid white.</b> The extended network is enabled with WiFi security (either WPA or WPA2).</li><li>• <b>Off.</b> The extended network is enabled without WiFi security</li></ul>
 Ethernet	<ul style="list-style-type: none"><li>• <b>Solid white.</b> An Ethernet device is connected to an Ethernet port</li></ul>



201-25054-01

April 2019

## Configure a router with advanced MAC settings to work with your extender

If you enabled a WiFi MAC filter, WiFi access control, or access control list (ACL) on your router, when a WiFi device connects through the extender to your router, the MAC address of the WiFi device shown on the router is translated to another MAC address.

If your router's MAC filter, WiFi access control, or ACL is enabled, the WiFi device connects to the extender but cannot get an IP address from the extender and cannot access the Internet.

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

### To add a translated MAC address to your router and reserve an IP address for your extender:

1. Log in to your router and disable the MAC filter, WiFi access control, or ACL. For more information about how to disable your router's MAC filter, WiFi access control, or ACL, see your router's documentation.
2. Power on the extender and connect all of your WiFi devices to the extender.
3. Make sure that the Link Status LED remains lit.
4. Log in to your extender:
  - a. Launch a web browser from a computer or mobile device that is connected to your extender network.
  - b. Log in to your extender:
    - If you did not enable the One WiFi Name feature, enter **www.mywifiext.net** in the address field of the browser.
    - If you enabled the One WiFi Name feature, enter one of the following URLs:
      - **Windows-based computer.** <http://mywifiext.local/> or <http://mywifiext/>
      - **Mac computers and iOS devices.** <http://mywifiext.local/>
      - **Android devices.** <http://<extender's IP address>/> (for example, <http://192.168.1.3/>)

A login page displays.

- c. Enter your admin user name and password and click the **LOG IN** button. The Status page displays.
5. Select **Settings > Connected Devices**.  
The Connected Devices page displays the MAC addresses and virtual MAC addresses for computers and WiFi devices that are connected to the extender network.
  6. On the router, add the all of the extender's virtual MAC addresses and all of the virtual MAC addresses of the devices connected to the extender to your router's MAC filter table.  
**Note:** To reserve a specific IP address for the extender, you must specify the first virtual MAC address that displays for your extender's 2.4 GHz or 5 GHz network in your router's IP reservation table. (The first virtual MAC address that displays for your extender's 2.4 GHz and 5 GHz networks is the same.)
  7. Enable the router's MAC filter, WiFi access control, or ACL.

## Support

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For regulatory compliance information including the EU Declaration of Conformity, visit <https://www.netgear.com/about/regulatory/>.

See the regulatory compliance document before connecting the power supply.

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## Quick Start

### NIGHTHAWK® X6S

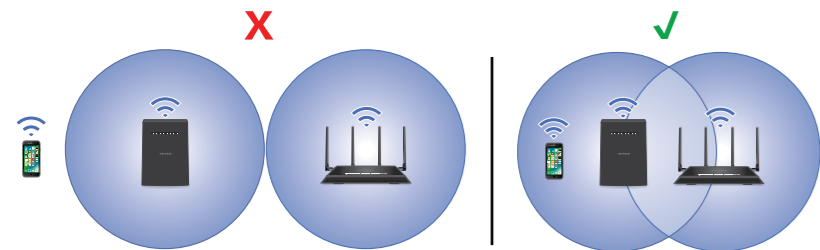
AC3000 Tri-Band WiFi Range Extender

Model EX8000



## Getting started

1. For initial setup, place your extender in the same room as your router. You can move your extender to a new location after the setup.



2. Connect the power adapter to your extender and plug the power adapter into an outlet.
3. Wait for Power LED to light green.
4. If the Power LED does not light, press the **Power On/Off** button.
5. Connect your extender to your existing WiFi network using one of these methods:

- **Connect with the Nighthawk app.** The Nighthawk app guides you through the installation. For more information, see [Connect with the Nighthawk app](#).
- **Connect with WPS.** Wi-Fi Protected Setup (WPS) lets you join a secure WiFi network without typing the network name and password. Your router must support WPS to use this method.

For more information, see [Connect with WPS](#).

WPS does not support WEP network security or a hidden WiFi network. If your router WiFi network uses WEP security or uses a hidden WiFi network, follow the instructions in [Connect with the Nighthawk app](#).

## Connect with the Nighthawk app

1. Download the Nighthawk app on your mobile device.



For more information about the Nighthawk app, visit [Nighthawk-app.com](#).

2. On your mobile device, open the WiFi connection manager, then locate and connect to the extender network called NETGEAR\_EXT.
3. Launch the Nighthawk app.
4. Follow the prompts to connect your extender to your router WiFi network.
5. After the setup is complete, move your extender to a new location.


For more information, see [Find a good spot for your extender](#).


6. Connect your WiFi-enabled devices to the extended network.

For more information, see [Connect your device to the extended network](#).


## Connect with WPS



1. Press the **WPS** button on the extender until the WPS LED  blinks.
2. Within two minutes, press the **WPS** button on your router.

When the extender connects to the router, the Link Status LED  lights.

If the Link Status LED lights white, the connection between your router and extender is good. If the Link Status LED lights amber or red, move the extender closer to the router and try again.

**Note:** If your router supports the 5 GHz band, when your extender connects to it, the Maximum Throughput LED  lights. If your extender didn't connect to that band, repeat the WPS process.


3. Move your extender to a new location. For more information, see [Find a good spot for your extender](#).
4. Connect your WiFi-enabled devices to the extended network.

For more information, see [Connect your device to the extended network](#).

## Find a good spot for your extender

1. Unplug your extender and move it to a new location. We recommend that the new location be about halfway between your router and the area with a poor WiFi signal.

The extender must be within the range of your router WiFi network.

2. Power on your extender.
3. Use the Link Status LED  to find a spot where the extender-to-router connection is optimal.

For more information about the Link Status LED, see [LED descriptions](#) on the other side of this quick start guide.

## Connect your device to the extended network

After the setup, the One WiFi Name feature is enabled, which allows your extender to use the same WiFi network settings as your router.

If you used the Nighthawk app to connect your extender, the following table lists examples of what your 2.4 and 5 GHz extended WiFi names might look like:

Dual-band router WiFi names		Extended WiFi names
2.4 GHz	MyWiFiExample	MyWiFiExample
5 GHz	MyWiFiExample-5G	MyWiFiExample-5G

If you used WPS to connect your extender, the extended WiFi network name is based on the first WiFi network that it connected to—2.4 or 5 GHz. The following table lists examples of what your extended WiFi name might look like:

Dual-band router WiFi names	Extender connects to this network	Extended WiFi name for 2.4 GHz and 5 GHz
2.4 GHz	MyWiFiExample	MyWiFiExample
5 GHz	MyWiFiExample-5G	MyWiFiExample
2.4 GHz	MyWiFiExample	MyWiFiExample-5G
5 GHz	MyWiFiExample-5G	MyWiFiExample-5G