NETGEAR EX6250-100NAS

NETGEAR WiFi Mesh Range Extender (EX6250)

User Manual

Introduction

The NETGEAR AC1750 Dual-Band WiFi Mesh Extender is designed to expand your existing WiFi coverage, creating a robust WiFi Mesh network for enhanced wireless speed and range. This device is compatible with any standard WiFi router and is suitable for activities requiring high bandwidth, such as HD video streaming and online gaming. It provides reliable connectivity for various devices including iPads, smartphones, and laptops.

What's in the Box

- AC1750 WiFi Mesh Extender (EX2700)
- Quick start guide

Product Overview



The NETGEAR EX6250 WiFi Mesh Range Extender, shown plugged into a standard wall outlet.



Visual representation of how the NETGEAR EX6250 extends WiFi coverage throughout a home.



Diagram highlighting key features of the EX6250, including dual-band WiFi, mesh networking, FastLane technology, amplified internal antenna array, and Gigabit Ethernet port.

Key Features:

- **Extended Coverage:** Extends WiFi coverage by up to 1,500 sq. ft. and connects up to 25 devices.
- **Seamless Roaming:** Utilizes your existing network SSID name, ensuring continuous connectivity as you

move within your home or office.

- **High-Speed Performance:** AC1750 speed WiFi 5 delivers up to 1750 Mbps performance through dual-band and patented FastLane technology, ideal for demanding HD streaming and online gaming.
- **Universal Compatibility:** Works with any standard wireless router or cable modem router.
- **Gigabit Ethernet Port:** Features one Gigabit Ethernet port for connecting wired devices such as computers, game consoles, or streaming players for maximum speed.
- **Security Protocols:** Supports WEP and WPA/WPA2 wireless security protocols.

Setup Instructions

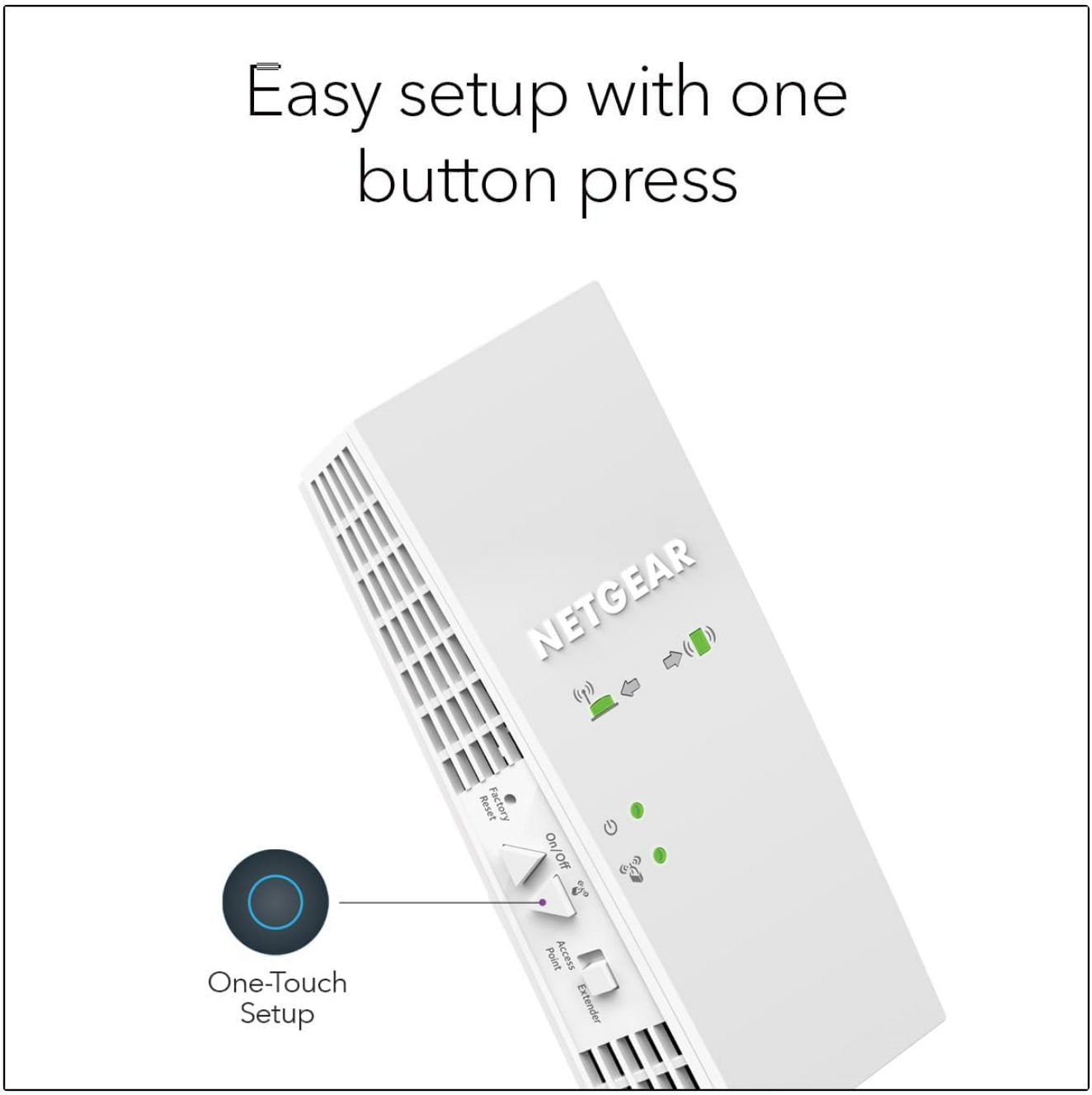
Setting up your NETGEAR EX6250 is designed to be straightforward, primarily through the Nighthawk app or via the WPS button. Follow these steps for a successful installation:

Method 1: Using the Nighthawk App (Recommended)

1. **Download the Nighthawk App:** On your mobile phone, download the NETGEAR Nighthawk app from the Google Play Store or Apple App Store.
2. **Plug in the Extender:** Plug the extender into a power outlet. Choose a location within range of your existing router. Wait for the power LED on the extender to turn solid green. This may take a few minutes.
3. **Launch the App and Agree to Terms:** Open the Nighthawk app. You will be prompted to accept NETGEAR's terms and conditions and allow local network access. Tap "I Agree" and "OK" to proceed.
4. **Create/Log In to Account:** Create a new NETGEAR account or log into an existing one.
5. **Start Setup:** Tap "Set up a Nighthawk" (even if the app refers to it as a router initially). Select "Range Extender" on the product selection screen.
6. **Connect to Extender's Network:** The app will ask you to join your extender's network (usually named NETGEAR_EXT). Confirm to connect.
7. **Select Your Router's Network:** The extender will scan for available WiFi networks. Select your existing home WiFi network that you wish to extend.
8. **Enter WiFi Password:** Input the password for your existing WiFi network.
9. **Configure Extended Network:** You can choose to use the same SSID (network name) as your existing router for seamless roaming, or create a new one. Enter the desired network name(s) and password(s) for the extended 2.4GHz and 5GHz networks.
10. **Complete Setup:** The extender will apply the settings and restart. Once the process is complete, the app will confirm that you are up and running.

Method 2: Using the WPS Button (Wi-Fi Protected Setup)

1. **Plug in the Extender:** Plug the extender into a power outlet near your router. Wait for the power LED to turn solid green.
2. **Press WPS on Extender:** Press the WPS button on the side of the NETGEAR EX6250 extender. The WPS LED will start blinking.
3. **Press WPS on Router:** Within two minutes, press the WPS button on your WiFi router.
4. **Verify Connection:** The WPS LED on the extender should turn solid green, indicating a successful connection.



The One-Touch Setup (WPS) button on the NETGEAR EX6250 for quick connection.

Product Setup Guide Video:

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Official product video demonstrating the setup tutorial and testing of the Netgear EX6250 Wi-Fi Extender.

Operating Instructions

Once your NETGEAR EX6250 is set up, it operates to seamlessly extend your WiFi network. Here are key aspects of its operation:

- **Automatic Connection:** Devices will automatically connect to the strongest available WiFi signal, whether from your main router or the extender, especially if you use the same network SSID.
- **FastLane Technology:** This feature allows you to dedicate one WiFi band (2.4GHz or 5GHz) for the connection between the extender and the router, and the other band for connecting devices. This can optimize performance for specific tasks like HD streaming or online gaming.
- **Gigabit Ethernet Port Usage:** The extender includes a Gigabit Ethernet port. You can connect a wired device (e.g., smart TV, gaming console, desktop computer) directly to this port for a stable, high-speed connection.

Seamless roaming with your existing network name



Seamless roaming ensures continuous connectivity as you move around your home or office.



The AC1750 speed supports demanding activities like HD streaming and online gaming.

Maintenance

To ensure optimal performance and longevity of your NETGEAR EX6250, consider the following maintenance tips:

- **Firmware Updates:** Regularly check for and install firmware updates through the Nighthawk app or NETGEAR's official website. Updates often include performance improvements and security patches.
- **Optimal Placement:** Ensure the extender is placed in an open area, away from obstructions like large metal objects, thick walls, or other electronic devices that could cause interference.
- **Cleaning:** Keep the device clean and free from dust buildup, especially around ventilation areas, to prevent overheating. Use a soft, dry cloth.
- **Restart Periodically:** A periodic restart (unplugging and replugging after 10 seconds) can help refresh the network connection and resolve minor performance issues.

Troubleshooting

If you encounter issues with your NETGEAR EX6250, consider these common troubleshooting steps:

No or Weak Signal Extension:

- **Relocate the Extender:** The extender might be too far from your main router. Try moving it to a location roughly halfway between your router and the area with poor coverage. The Link Rate LEDs on the extender indicate the connection quality to the router.
- **Check Router Compatibility:** Ensure your router is compatible with the extender's WiFi standards (802.11ac).
- **Interference:** Move the extender away from other electronic devices (cordless phones, microwaves, Bluetooth devices) that might cause signal interference.

Setup Issues (Nighthawk App):

- **Power LED Status:** Ensure the power LED is solid green before attempting setup. If it's orange or blinking, wait longer or try a different power outlet.
- **Factory Reset:** If you've tried setting it up before and are facing issues, perform a factory reset. Use a paperclip to press and hold the Factory Reset button on the side of the unit until the power light blinks orange. This will revert the extender to its default settings.
- **App Permissions:** Verify that the Nighthawk app has necessary permissions (local network access, location services) on your mobile device.

Slow Speeds:

- **FastLane Technology:** Experiment with FastLane technology to optimize speed for specific devices or activities.
- **Wired Connection:** For critical devices, use the Gigabit Ethernet port for a direct, stable connection.
- **Network Congestion:** Reduce the number of devices connected to the extended network if speeds are consistently low.

General Connectivity Issues:

- **Restart Extender and Router:** Power cycle both your extender and your main router. Unplug them for 10 seconds, then plug them back in, starting with the router.
- **Check Cables:** If using the Ethernet port, ensure the cable is securely connected and undamaged.

Product Review Video (Informational):

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An influencer's review providing insights and considerations for the NETGEAR WiFi Mesh Extender.

SPECIFICATIONS

Feature	Detail
Model Number	EX6250-100NAS
Wireless Type	802.11ac
Data Transfer Rate	Up to 1750 Mbps
Frequency Band Class	Dual-Band (2.4GHz & 5GHz)
Ethernet Ports	1 Gigabit Ethernet Port
Coverage Area	Up to 1,500 sq. ft.

Connected Devices	Up to 25 devices
Dimensions (LxWxH)	1.75 x 6.34 x 3.2 inches
Item Weight	10.6 ounces
Voltage	100-240 Volts
Wireless Security	WEP, WPA/WPA2 protocols

Warranty and Support

NETGEAR products typically come with a limited warranty. For specific warranty details and duration, please refer to the documentation included with your product or visit the official NETGEAR website.
For technical support, troubleshooting, and community forums, visit the NETGEAR support website. You can also find additional user guides and installation manuals in PDF format:

- Installation Manual (PDF)
- User Manual (PDF)
- User Guide (PDF)

Important Safety Information

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question