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Linksys RE4000W

Linksys Wi-Fi Range Extender Pro N600 Dual Band RE4000W User Manual

Model: RE4000W (REK4000-BP)

1. Introduction

The Linksys Wi-Fi Range Extender Pro N600 Dual Band RE4000W is designed to expand the coverage of your existing Wi-Fi network, eliminating dead zones and providing a stronger, more reliable signal throughout your home or office. This device works with any standard router or gateway, boosting your Wi-Fi signal for improved connectivity across multiple devices.



Figure 1.1: Linksys RE4000W Wi-Fi Range Extender Pro N600 Dual Band Two Pack packaging. This image displays the product packaging, highlighting its key features such as dual-band capability, N600 speed, and compatibility with any router.

2. Package Contents

Verify that all items are present in your package:

- 2 Linksys RE4000W Wi-Fi Range Extenders
- 2 Ethernet Cables
- 2 AC Cables
- 2 AC Connector Covers
- CD with Setup and Resources
- Quick Install Guide
- Instruction manual (this document)



Figure 2.1: Two Linksys RE4000W Wi-Fi Range Extenders. The image shows the two white extender units included in the two-pack, ready for deployment.

3. Product Features

The Linksys RE4000W offers a range of features designed to enhance your wireless experience:

- **Broad Compatibility:** Works with any router or gateway, including those supplied by a service provider. Supports Wireless-N technology.
- **Simultaneous Dual Band:** Operates on both 2.4 GHz and 5 GHz bands concurrently, reducing traffic and maximizing speed for a combined data transfer rate of up to 300Mbps on each band.
- **Cross-Band Technology:** Maximizes the simultaneous use of both bands for faster data transfer speeds.
- **2 Fast Ethernet Ports:** Each extender includes two RJ45 Ethernet ports, allowing you to connect wired devices such as gaming consoles, smart TVs, or desktop computers directly to the extender.
- **Easy Setup:** An intuitive installation wizard guides you through the setup process and helps determine optimal placement for the extender.
- **Push-Button Security:** Features Wi-Fi Protected Setup (WPS) for simple and secure device pairing.
- **Quality of Service (QoS):** Prioritizes bandwidth for smoother streaming and gaming.



Figure 3.1: Close-up of Linksys RE4000W Ethernet ports. This image shows the two Fast Ethernet RJ45 ports located on the extender, which allow for wired connections.

4. System Requirements

To set up and use your Linksys RE4000W, you will need the following:

- A PC or other device with an Ethernet network port for initial setup, or a Wi-Fi enabled device.
- An AC power outlet.
- A PC/Mac with a CD-ROM drive for the utility CD, or an active internet connection to download the setup utility.
- An existing Wi-Fi router or gateway.

5. Setup

Follow these steps to set up your Linksys RE4000W Wi-Fi Range Extender:

1. **Unpack the Extender:** Remove the extender from its packaging.
2. **Initial Placement:** Plug the extender into an AC power outlet in the same room as your existing router. Ensure it is within range of your router's Wi-Fi signal.
3. **Connect to the Extender:** Connect your computer or mobile device to the extender's temporary Wi-Fi network (usually named 'Linksys Extender Setup' or similar). Alternatively, you can connect your computer to one of the extender's Ethernet ports using an Ethernet cable.
4. **Run Setup Wizard:** Open a web browser and navigate to the setup page (refer to your Quick Install Guide for the specific address, typically 'extender.linksys.com' or an IP address). Follow the on-screen instructions of the setup wizard. The wizard will guide you through connecting the extender to your existing Wi-Fi network.
5. **Optimal Placement:** Once the initial setup is complete, unplug the extender and move it to a location roughly halfway between your router and the area where you need improved Wi-Fi coverage. Ensure the extender receives a good signal from your router. The setup wizard often provides guidance on signal strength indicators for optimal placement.
6. **Verify Connection:** After repositioning, check the indicator lights on the extender to ensure it has successfully reconnected to your router and is extending the network.



Figure 5.1: Diagram illustrating Wi-Fi range extension. This graphic shows how the range extender bridges the gap between a router and devices in areas with weak or no signal, expanding the overall Wi-Fi coverage.

6. Operating Instructions

Once set up, the Linksys RE4000W operates automatically to extend your Wi-Fi network. Devices within the extended range will connect to the stronger signal provided by the extender.

- **Connecting Devices:** Your devices (smartphones, tablets, laptops, etc.) should automatically connect to the strongest available Wi-Fi signal, whether from your router or the extender. The extended network will typically have the same name (SSID) as your main Wi-Fi network, allowing for seamless roaming.
- **Wired Connections:** Use the two Fast Ethernet ports on the extender to connect wired devices. This provides a stable and high-speed connection for devices like desktop computers, gaming consoles, or smart TVs that benefit from a direct network link.
- **Dual Band Operation:** The extender simultaneously broadcasts on both 2.4 GHz and 5 GHz bands. The 2.4 GHz band offers wider coverage, while the 5 GHz band provides faster speeds and is less prone to interference. The extender intelligently manages traffic across both bands for optimal performance.

7. Maintenance

To ensure optimal performance and longevity of your Linksys RE4000W:

- **Keep Clean:** Periodically wipe the exterior of the extender with a soft, dry cloth. Do not use liquid cleaners or aerosol sprays.
- **Ventilation:** Ensure the extender is placed in a location with adequate airflow to prevent overheating. Do not

block ventilation openings.

- **Firmware Updates:** Check the Linksys support website periodically for firmware updates. Keeping the firmware updated can improve performance, add new features, and address security vulnerabilities.
- **Power Cycle:** If you experience network issues, try power cycling the extender by unplugging it from the power outlet for 10 seconds and then plugging it back in.

8. Troubleshooting

If you encounter issues with your Linksys RE4000W, consider the following troubleshooting steps:

- **No Power:** Ensure the extender is securely plugged into a working AC power outlet. Try a different outlet.
- **Cannot Connect to Extender's Wi-Fi:** During setup, ensure you are connecting to the correct temporary Wi-Fi network. After setup, ensure your device is within range of the extender.
- **Weak or No Extended Signal:** The extender might be placed too far from your main router. Try moving the extender closer to the router, or to a location roughly halfway between the router and the desired coverage area. Ensure there are no major obstructions (thick walls, large metal objects) between the router and the extender.
- **Internet Access Issues:** If devices connected to the extender have no internet access, verify that your main router has a working internet connection. Power cycle both the router and the extender.
- **Setup Failure:** If the setup wizard fails, try resetting the extender to factory defaults (refer to the Quick Install Guide for reset instructions, usually a small reset button) and repeat the setup process.
- **Slow Speeds:** Ensure the extender is optimally placed. Interference from other electronic devices (cordless phones, microwaves) can affect Wi-Fi performance. Try changing Wi-Fi channels on your main router if possible.

9. Specifications

Key technical specifications for the Linksys RE4000W:

Feature	Specification
Model	RE4000W (REK4000-BP)
Wireless Communication Standard	802.11n
Frequency Band Class	Dual-Band (2.4 GHz and 5 GHz)
Data Transfer Rate	Up to 300 Mbps per band
Ethernet Ports	2 x Fast Ethernet (RJ45)
Product Dimensions	16.2 x 12 x 2.7 inches
Item Weight	1.9 pounds
Manufacturer	Linksys
ASIN	B08HM9K63P
UPC	0745883671137

10. Warranty and Support

This product is offered as a renewed item. Renewed products are professionally inspected and tested to work and look like new. If not satisfied with the purchase, renewed products are eligible for replacement or refund under the Amazon Renewed Guarantee, typically for a period of 90 days from the date of purchase.
For further assistance, technical support, or to check for the latest firmware updates, please visit the official Linksys support website or contact their customer service. Keep your purchase receipt and product serial number handy when seeking support.

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