WAVLINK BE5100

WAVLINK BE5100 WiFi 7 Dual-Band Router Instruction Manual

Model: BE5100

1. Introduction

This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your WAVLINK BE5100 WiFi 7 Dual-Band Router. Please read this manual thoroughly before using the device to ensure optimal performance and safety.



Image: The WAVLINK BE5100 WiFi 7 Router, highlighting its dual-band capabilities and high-speed performance.

2. Package Contents

Verify that all items are present in your package:

- 1 x Wi-Fi 7 BE5100 Dual-Band 2.5 Gigabit Router
- 1 x Power Adapter
- 1 x RJ45 Ethernet Cable

- 1 x Quick Start Guide



Image: All components included in the WAVLINK BE5100 WiFi 7 Router package: the router, power adapter, Ethernet cable, and quick start guide.

3. Setup

Follow these steps for initial setup of your WAVLINK BE5100 Router:

1. **Connect Hardware:** Connect your modem to the 2.5 Gigabit WAN port on the router using the provided Ethernet cable. Connect the power adapter to the router and plug it into a power outlet.
2. **Power On:** Wait for the router to power on and for the LED indicator to show a stable status (refer to the Quick Start Guide for specific LED indications).
3. **Access Management Interface:** You can configure the router using either the intuitive WavRouter app or by accessing the web interface.

- **WavRouter App:** Download the WavRouter app from your device's app store. Follow the in-app instructions to connect to your router and complete the setup.
- **Web Interface:** Connect your computer to the router via an Ethernet cable (to one of the LAN ports) or wirelessly to the default Wi-Fi network (SSID and password are on the sticker at the bottom of the router). Open a web browser and enter 192.168.20.1 in the address bar. Follow the on-screen prompts to set up your network.

4. **Initial Configuration:** During the setup process, you will be guided to set up your Wi-Fi network name (SSID) and password, as well as an administrator password for the router.

Your browser does not support the video tag.

Video: An official unboxing and initial setup guide for the WAVLINK BE5100 WiFi 7 Router, demonstrating physical connections and accessing the configuration interface.



Image: The WAVLINK BE5100 Router shown alongside a smartphone displaying the intuitive WavRouter app for easy setup and management.

4. Operating Your Router

4.1. Wi-Fi 7 Connectivity

The BE5100 router utilizes next-generation Wi-Fi 7 technology with 4096-QAM modulation, providing ultra-fast speeds of up to 688Mbps on the 2.4GHz band and 4323Mbps on the 5GHz band. This dual-band operation is optimized for streaming, gaming, and general browsing.

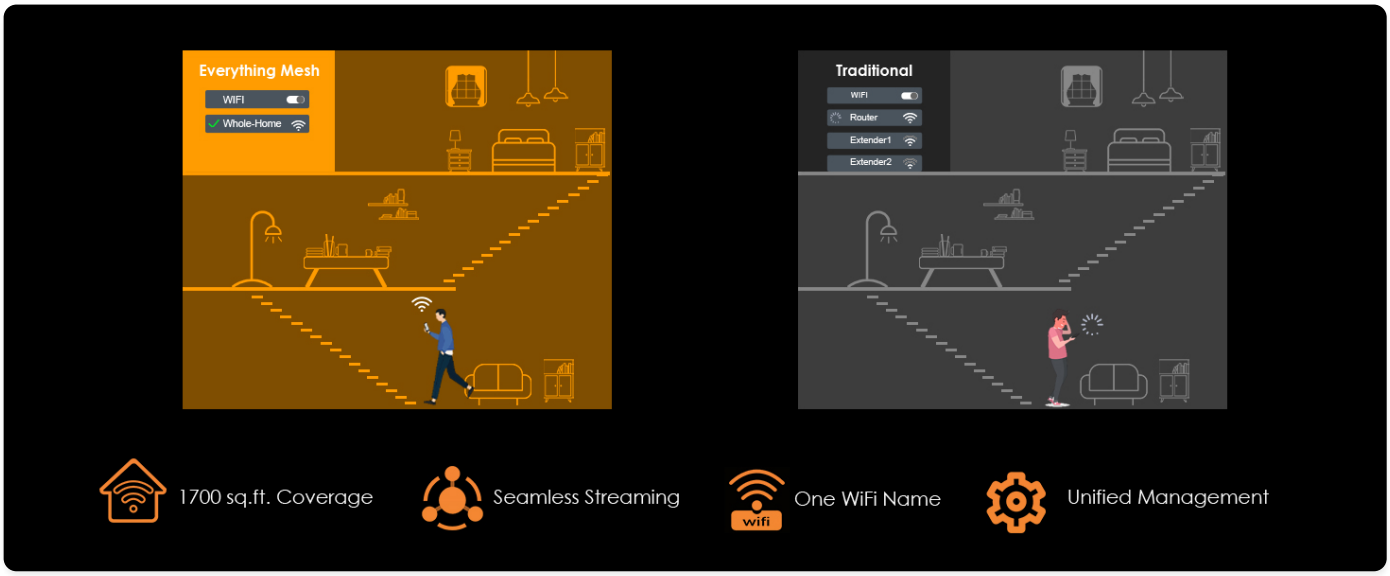


Image: Diagram illustrating the dual-band aggregation feature of the WAVLINK BE5100, combining 2.4 GHz and 5 GHz for a total speed of 5100 Mbps.

4.2. Network Ports

The router is equipped with one 2.5 Gigabit WAN port for high-speed internet input and four Gigabit LAN ports for connecting wired devices, ensuring versatile connectivity for your home or office network.

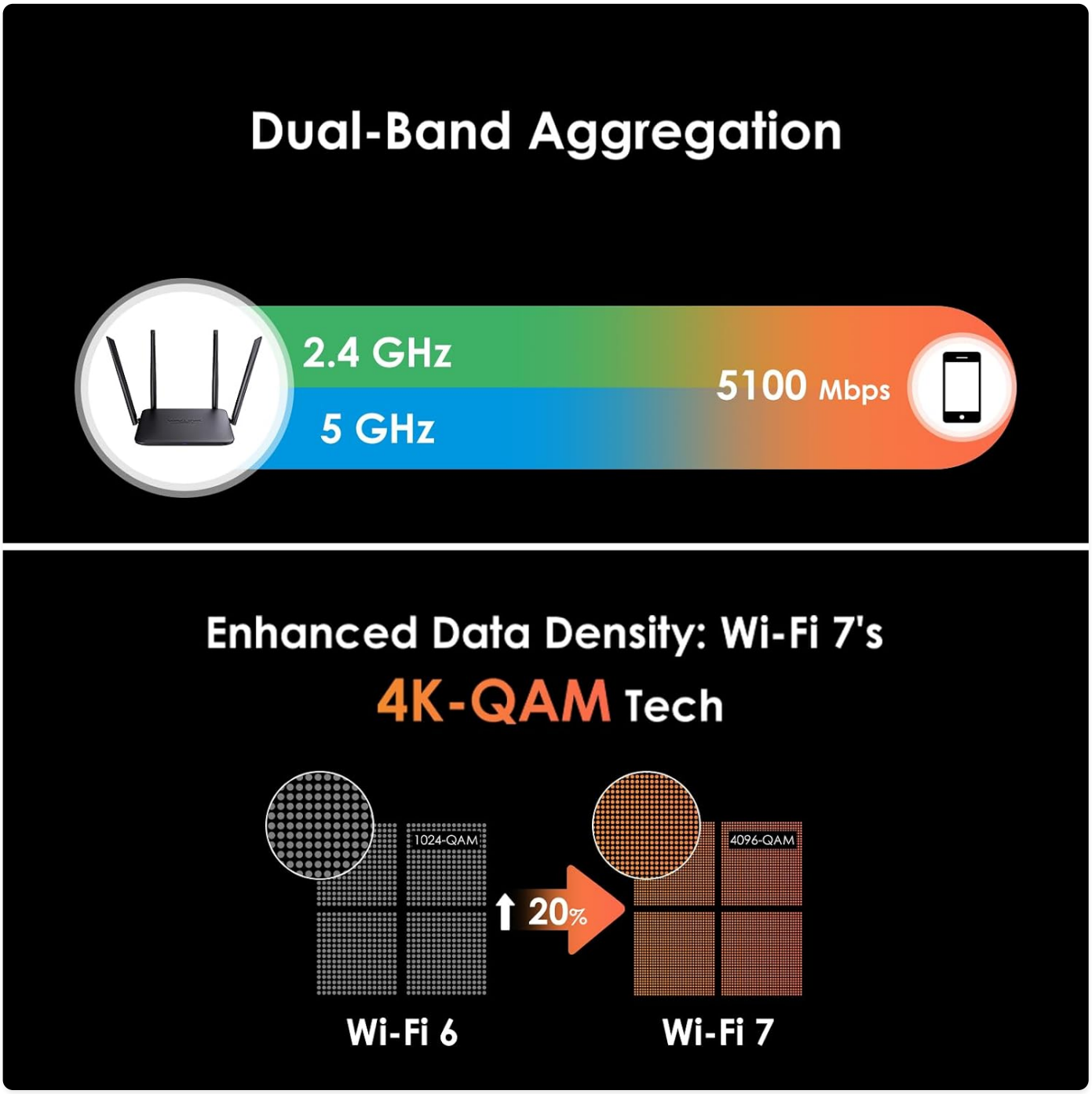


Image: A close-up view of the rear panel of the WAVLINK BE5100 Router, clearly showing the 2.5 Gigabit WAN port and four Gigabit LAN ports.

4.3. Whole-Home Coverage with Mesh

Achieve seamless whole-home Wi-Fi coverage using the Everything Mesh feature. You can expand your network by adding compatible mesh extenders, creating a single Wi-Fi network that eliminates signal drops and lags across large spaces (up to 1,700 sq.ft.).

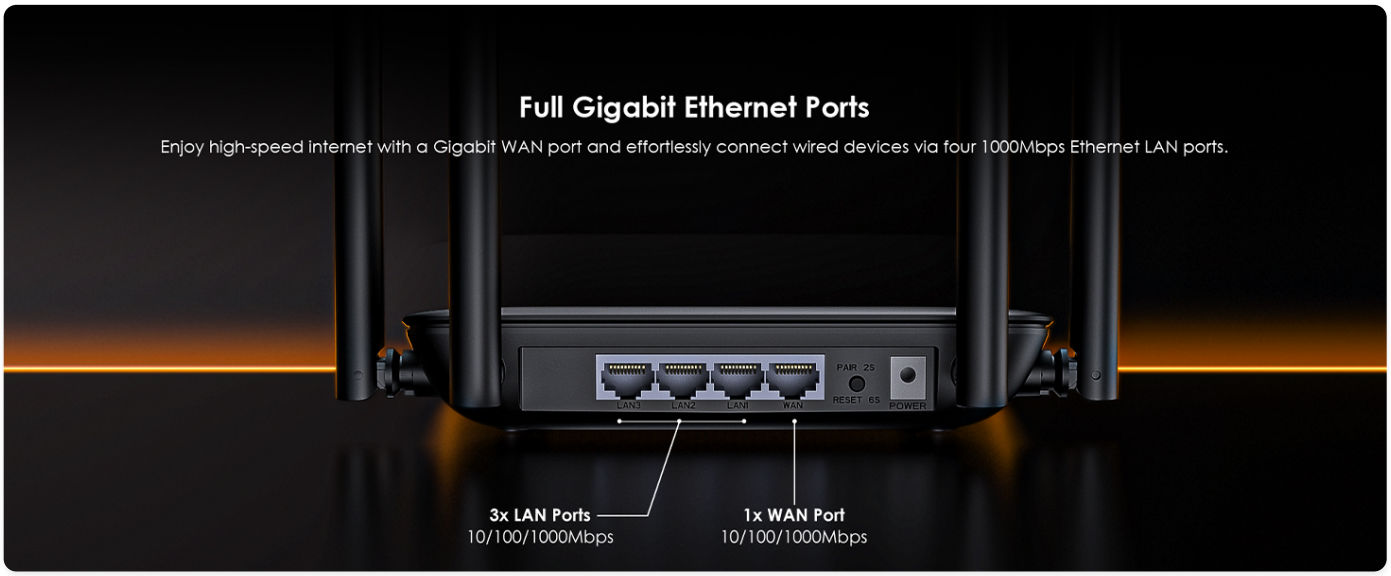


Image: A visual representation of the Everything Mesh system providing seamless Wi-Fi coverage throughout a multi-story home, supporting up to 10 devices for network setup.

4.4. Advanced Features

- **Guest Wi-Fi:** Create a separate, secure Wi-Fi network for guests without compromising your main network's security.
- **Parental Controls:** Manage internet access time and block inappropriate content for connected devices.
- **Quality of Service (QoS):** Prioritize bandwidth for key devices or applications (e.g., gaming, streaming) to ensure optimal performance.
- **VPN Support:** The router supports OpenVPN and WireGuard, allowing you to establish secure remote access to your home network's VPN server.
- **OFDMA & MU-MIMO:** These technologies enhance connectivity by enabling efficient communication with multiple devices simultaneously, reducing latency in busy households.



Image: The WAVLINK BE5100 Router displayed with icons representing its advanced network security features, including IPv6 settings, WPA2/WPA3-PSK Mix, and AdGuard Home.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your router:

- **Firmware Upgrades:** Periodically check for and install firmware updates via the WavRouter app or web interface to ensure your router has the latest features and security patches.
- **Reboot Router:** If you experience network issues, a simple reboot can often resolve them. This can be done through the app, web interface, or by unplugging and replugging the power adapter.
- **System Logs:** Access system logs through the web interface to monitor network activity, connected devices, and potential issues.
- **Physical Cleaning:** Keep the router in a well-ventilated area and periodically clean dust from its vents to prevent overheating.

6. Troubleshooting

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

- **No Internet Connection:**
  - Check all cable connections (WAN, LAN, power) to ensure they are secure.
  - Restart your modem and then your router.
  - Verify your internet service provider (ISP) connection status.
- **Weak Wi-Fi Signal or Dead Zones:**
  - Ensure the router's antennas are positioned optimally.
  - Relocate the router to a central location, away from obstructions and interference sources.
  - Consider adding a compatible mesh extender to expand coverage.
- **Device Connectivity Issues:**
  - Ensure your device is within the Wi-Fi range.
  - Verify the Wi-Fi password is correct.
  - If using older IoT devices, ensure dual-band convergence is configured appropriately or separate the 2.4GHz and 5GHz SSIDs.
- **Slow Network Speed:**
  - Check your internet plan speed with your ISP.
  - Use QoS settings to prioritize critical devices or applications.
  - Ensure your devices support Wi-Fi 7 for optimal performance.
- **Router Reset:** If all else fails, you can perform a factory reset by pressing and holding the reset button on the back of the router for approximately 10 seconds. **Warning:** This will erase all custom settings and restore the router to its factory defaults.

7. Specifications

Feature	Detail
Product Dimensions	6.61 x 6.61 x 7.4 inches
Item Weight	1.46 pounds
Model Name	WN530BE2

Special Feature	MLO; Multi-RU; MU-MIMO TX/RX; MU-OFDMA TX/RX; STBC, LDPC, TX Beamformmer and RX BeamFormee
Frequency Band Class	Dual-Band
Wireless Communication Standard	802.11.be
Compatible Devices	Smartphone
Recommended Uses For Product	Business, Gaming, Home
Included Components	1 x Power Adapter, 1 x Quick Start Guide, 1 x RJ45 Ethernet Cable, 1 x Wi-Fi 7 BE5100 Dual-Band 2.5 Gigabit Router
Connectivity Technology	Ethernet
Color	WiFi 7, BE5100

8. Warranty and Support

8.1. Customer Support

For any questions or technical assistance, please contact WAVLINK customer support:

- **Phone Support:** +1 8889730883 (UTC-5) Mon-Fri 7AM-4PM
- **Email Support:** Contact@wavlink.com
- **Via Amazon:** Contact us through the Amazon platform.

WAVLINK aims to provide solutions within 24 hours and offers life-long technical support.

8.2. Protection Plans

Optional protection plans are available for your product:

- **3-Year Protection Plan:** One-time payment of $13.49
- **4-Year Protection Plan:** One-time payment of $17.99
- **Complete Protect:** Monthly billing of $16.99 (covers all eligible past and future purchases)

8.3. Return Policy

The product is eligible for a 30-day refund/replacement return policy.

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

Anonymous

Email

you@example.com

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