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> [WAVLINK BE3600 WiFi 7 Router User Manual](#)

## WAVLINK WN530BE1

# WAVLINK BE3600 WiFi 7 Router User Manual

Model: WN530BE1

## 1. PRODUCT OVERVIEW

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The WAVLINK BE3600 WiFi 7 Router is designed to provide high-speed wireless connectivity. It features dual-band operation, Multi-Link Optimization (MLO), 4K-QAM modulation, and Multi-RU technology for enhanced performance. This router supports various operating modes including Router, Access Point (AP), and Repeater, and offers comprehensive security features.

### Key Features:

- **BE3600 Wi-Fi 7 Speed:** Combines 2.4GHz (up to 688Mbps) and 5GHz (up to 2882Mbps) for a total of 3600Mbps.
- **Multi-Link Optimization (MLO):** Enhances speed and stability by aggregating dual-band frequencies.
- **4K-QAM Modulation:** Increases data density for 20% faster transmission compared to Wi-Fi 6.
- **Multi-RU Allocation:** Efficiently distributes bandwidth to reduce latency.
- **Seamless Whole-Home Coverage:** Supports Everything Mesh for unified Wi-Fi networks.
- **Enhanced Connectivity:** Equipped with 5dBi omni-directional antennas and beamforming technology, covering up to 1,700 sq.ft. Supports 32+ devices simultaneously with OFDMA and 2x2 UL/DL MU-MIMO.
- **Top-Tier Security:** Features WPA/WPA2-Enterprise, WPA2/WPA3-PSK MIX, OpenVPN, WireGuard, and AdGuard Home support.
- **Versatile Ports:** Includes one Gigabit WAN port and three Gigabit LAN ports.
- **Easy Setup & Management:** Configurable via the intuitive WavRouter app or web interface (192.168.20.1).

### Package Contents:

- 1 x WAVLINK BE3600 WiFi 7 Router
- 1 x Power Adapter
- 1 x Ethernet Cable
- 1 x Quick Installation Guide



Figure 1: Front view of the WAVLINK BE3600 WiFi 7 Router.



Figure 2: Rear view of the WAVLINK BE3600 WiFi 7 Router, showing WAN, LAN, Reset, and Power ports.

## 2. SETUP INSTRUCTIONS

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Follow these steps to set up your WAVLINK BE3600 WiFi 7 Router.

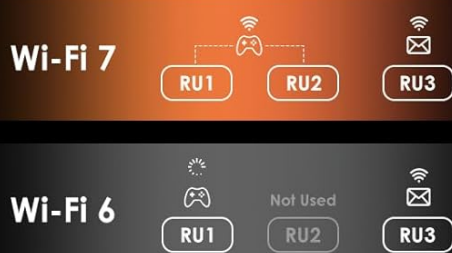
### 2.1 Hardware Connection

1. **Power On:** Connect the provided power adapter to the router's DC In port and plug it into a power outlet.
2. **Connect to Modem:** Connect one end of the Ethernet cable to your modem's LAN port and the other end to the router's **WAN** port.
3. **Connect Devices (Optional):** For wired connections, connect your computer or other network devices to the router's **LAN1**, **LAN2**, or **LAN3** ports using Ethernet cables.

# Multi-Link Optimization(MLO) Dual-Band Aggregation



## Efficient Latency Reduction with Enhanced **Multi-RU**



## Enhanced Data Density: Wi-Fi 7's **4K-QAM** Tech

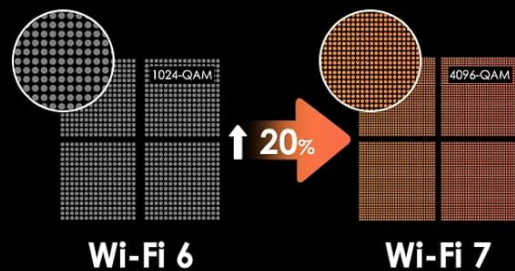


Figure 3: Router ports and connections. The router has one Gigabit WAN port, three Gigabit LAN ports, a Pair/Reset button, and a Power input.

## 2.2 Initial Configuration

You can configure the router using the WavRouter app or a web browser.

### Using the WavRouter App:

1. Download the WavRouter app from your device's app store.
2. Connect your smartphone or tablet to the router's default Wi-Fi network (SSID and password are usually found on a label on the router).
3. Open the WavRouter app and follow the on-screen instructions to complete the setup.

### Using a Web Browser:

1. Connect your computer to the router via an Ethernet cable or its default Wi-Fi network.

2. Open a web browser and enter **192.168.20.1** in the address bar.
3. Log in using the default username and password (usually 'admin' for both, or as specified on the router label).
4. Follow the on-screen setup wizard to configure your internet connection and Wi-Fi settings.



Figure 4: Router configuration via the WavRouter app.

## 2.3 Network Configuration Options

The WAVLINK BE3600 supports multiple operating modes:

- **Router Mode:** The default mode, where the device acts as a primary router, providing internet access to connected devices.
- **Access Point (AP) Mode:** Converts an existing wired network into a wireless network.
- **Repeater Mode:** Extends the coverage of an existing wireless network.

You can switch between these modes in the router's web interface or WavRouter app settings.

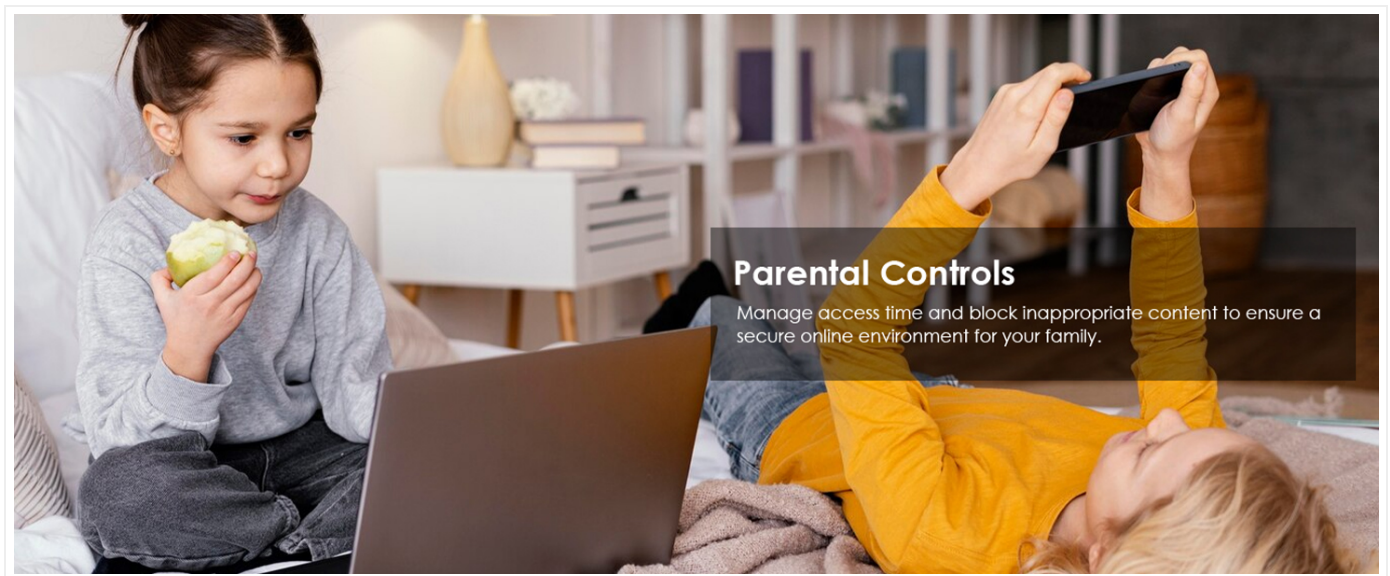


Figure 5: Flexible network configuration options.

### 3. OPERATING INSTRUCTIONS

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This section details the advanced features and functionalities of your WAVLINK BE3600 router.

#### 3.1 Wi-Fi 7 Technology

The BE3600 router leverages Wi-Fi 7 (802.11be) standards to deliver superior wireless performance.

- **Multi-Link Optimization (MLO):** This technology allows devices to simultaneously transmit and receive data across different frequency bands (2.4GHz and 5GHz), optimizing throughput and reducing latency.
- **4096-QAM:** Quadrature Amplitude Modulation at 4096 levels increases the amount of data carried by each signal, resulting in up to 20% faster transmission speeds compared to Wi-Fi 6's 1024-QAM.
- **Multi-RU Allocation:** Resource Units (RUs) can be allocated more flexibly to multiple users, improving efficiency and reducing interference in dense environments.



Figure 6: Wi-Fi 7 speed capabilities.

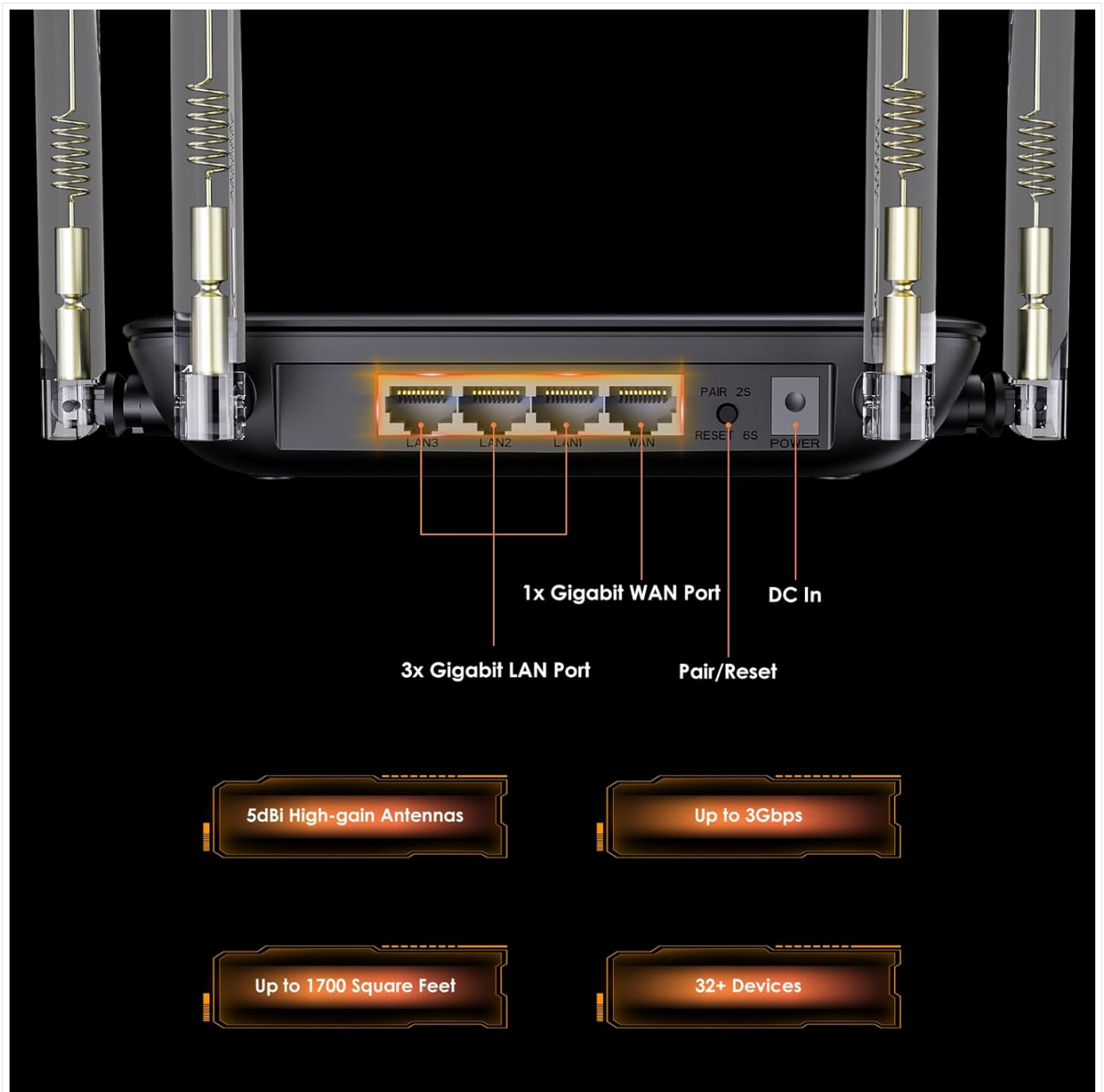


Figure 7: Wi-Fi 7 advanced technologies: MLO, Multi-Rus, and 4K-QAM.

### 3.2 Whole-Home Mesh Wi-Fi

The Everything Mesh feature allows you to create a unified Wi-Fi network throughout your home by adding compatible mesh extenders. This eliminates dead zones and provides seamless roaming as you move between rooms.

- **Single Wi-Fi Name:** All devices connect to a single network name, simplifying connectivity.
- **Seamless Roaming:** Devices automatically switch to the strongest signal without interruption.
- **Expanded Coverage:** Extends Wi-Fi coverage up to 1,700 sq.ft. or more with additional mesh units.



Figure 8: Whole-home Wi-Fi with Everything Mesh.

### 3.3 Network Security

The router offers robust security features to protect your network and data.

- **Encryption Standards:** Supports WPA/WPA2-Enterprise and WPA2/WPA3-PSK MIX for strong wireless encryption.
- **VPN Support:** Integrated OpenVPN and WireGuard client allows for secure remote access to your home network.
- **AdGuard Home:** Provides network-wide ad blocking and enhanced privacy.
- **IPv6 Settings:** Supports the latest internet protocol for improved security and efficiency.

# Tailored Setup & Management

Use the WavRouter App or visit 192.168.20.1 for enhanced network control.



Figure 9: Advanced network security features.

## 3.4 Guest Wi-Fi, Parental Controls, and QoS

Manage your network with these additional features:

- **Guest Wi-Fi:** Create a separate, secure Wi-Fi network for guests, keeping your main network private.
- **Parental Controls:** Manage internet access times and block inappropriate content for specific devices.
- **Quality of Service (QoS):** Prioritize bandwidth for critical applications like gaming or streaming to ensure optimal performance.

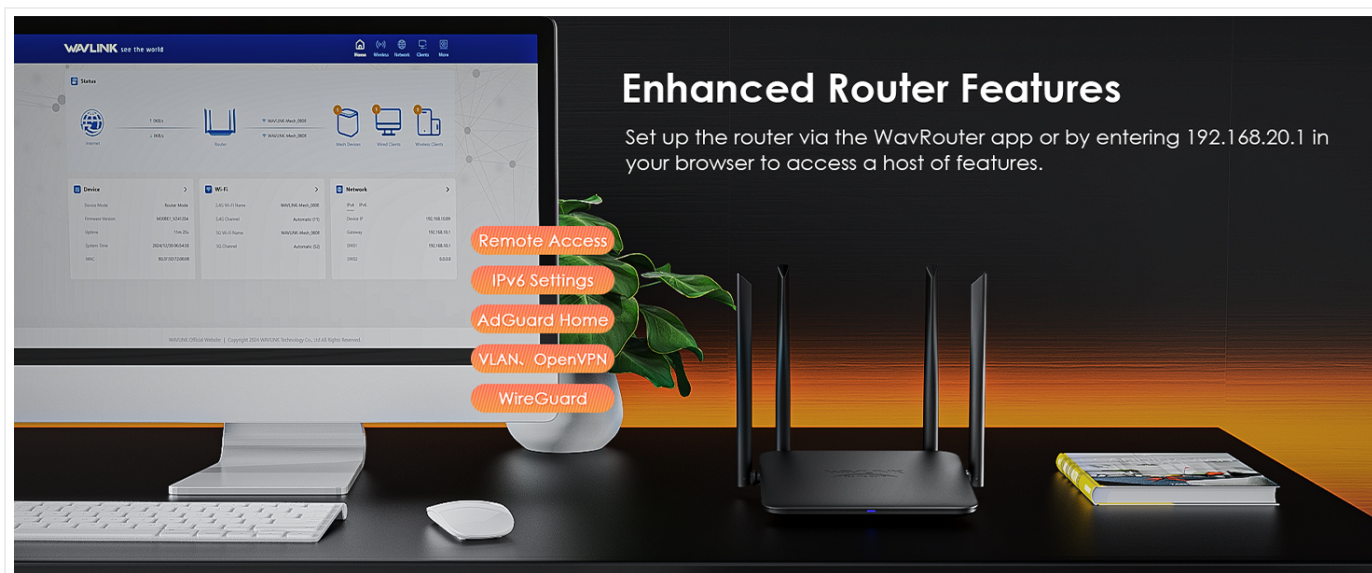


Figure 10: Secure Guest Wi-Fi setup.

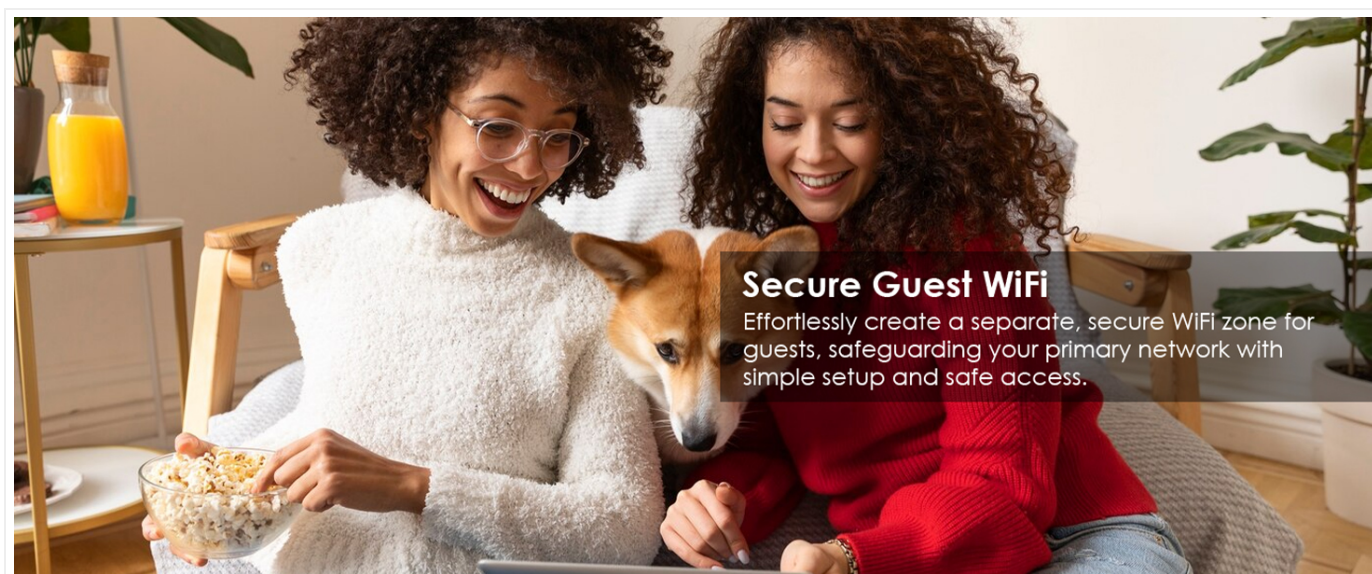


Figure 11: Parental Controls for network management.



Figure 12: Intelligent QoS settings for bandwidth allocation.

## 4. MAINTENANCE

Regular maintenance ensures optimal performance and security of your router.

## 4.1 Firmware Updates

Periodically check for and install firmware updates. Updates often include performance improvements, new features, and security patches. You can usually find firmware updates through the WavRouter app or the router's web interface under 'System Tools' or 'Firmware Upgrade'.

## 4.2 Rebooting the Router

If you experience network issues, a simple reboot can often resolve them. To reboot, either power off the router, wait 10 seconds, and power it back on, or use the reboot option in the WavRouter app or web interface.

## 4.3 Physical Care

Keep the router in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure that the antennas are positioned for optimal signal strength.

# 5. TROUBLESHOOTING

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This section addresses common issues you might encounter with your WAVLINK BE3600 router.

## 5.1 No Internet Access

- **Check Connections:** Ensure all cables (power, Ethernet from modem to WAN port) are securely connected.
- **Modem Status:** Verify that your modem is working correctly and has an active internet connection.
- **Router Lights:** Check the LED indicators on the router. Refer to the Quick Installation Guide for LED status meanings.
- **Reboot Devices:** Power cycle your modem, then the router, and then your connected devices.
- **ISP Settings:** Confirm your Internet Service Provider (ISP) settings are correctly configured in the router's web interface.

## 5.2 Slow Wi-Fi Speed or Signal Drops

- **Router Placement:** Position the router centrally and away from obstructions (thick walls, metal objects) and interference sources (microwaves, cordless phones).
- **Channel Interference:** Use the router's web interface or app to perform a Wi-Fi analysis and select a less congested Wi-Fi channel.
- **Firmware Update:** Ensure your router's firmware is up to date.
- **Device Overload:** Too many devices connected simultaneously can impact performance. Consider using QoS to prioritize important devices.
- **Mesh Extenders:** If you have a large area, consider adding WAVLINK mesh extenders to improve coverage and signal strength.

## 5.3 Cannot Access Router Web Interface (192.168.20.1)

- **IP Address:** Ensure you are typing the correct IP address (192.168.20.1).
- **Wired Connection:** Try connecting your computer directly to the router via an Ethernet cable.
- **IP Settings:** Verify your computer's network adapter is set to obtain an IP address automatically (DHCP).
- **Firewall/Antivirus:** Temporarily disable any firewall or antivirus software on your computer that might be blocking

access.

## 5.4 Resetting the Router to Factory Defaults

If other troubleshooting steps fail, you may need to reset the router to its factory default settings. This will erase all custom configurations.

1. With the router powered on, use a paperclip or pin to press and hold the **RESET** button (located on the rear panel, see Figure 3) for approximately 6-10 seconds until the LED indicators flash.
2. Release the button and wait for the router to restart.
3. After the reset, you will need to reconfigure the router as if it were new.

## 6. SPECIFICATIONS

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Detailed technical specifications for the WAVLINK BE3600 WiFi 7 Router.

Feature	Specification
Model Number	WN530BE1
Wi-Fi Standard	Wi-Fi 7 (802.11be)
Wi-Fi Speed	BE3600 (2.4GHz: 688Mbps, 5GHz: 2882Mbps)
Antennas	5dBi Omni-directional Antennas
Ethernet Ports	1x Gigabit WAN, 3x Gigabit LAN
Dimensions (L x W x H)	10.63 x 8.94 x 2.09 inches
Item Weight	1.48 pounds
Security Protocols	WPA/WPA2-Enterprise, WPA2/WPA3-PSK MIX
VPN Support	OpenVPN, WireGuard
Management	WavRouter App, Web UI (192.168.20.1)
Operating Modes	Router, AP, Repeater

## 7. WARRANTY AND SUPPORT

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WAVLINK is committed to providing reliable products and customer support.

### 7.1 Warranty Information

Please refer to the warranty card included with your product or visit the official WAVLINK website for detailed warranty terms and conditions.

### 7.2 Technical Support

For technical assistance or inquiries, please contact WAVLINK support:

- **Phone:** +1 8889730883 (UTC -5) Monday - Friday, 9 AM - 6 PM

- **Email:** [Contact@wavlink.com](mailto:Contact@wavlink.com)
- **Online:** Visit the official [WAVLINK Store on Amazon](#) for more information and resources.



Figure 13: WAVLINK brand logo.