WAVLINK WN533A8

WAVLINK WiFi Router AC3000 Tri-Band Gigabit Ethernet User Manual

Model: WN533A8
Brand: WAVLINK

1. Product Overview

The WAVLINK AC3000 Tri-Band Gigabit WiFi Router is designed to provide high-speed wireless internet connectivity for your home or office. Featuring Tri-Band technology, it offers dedicated bands for various devices, ensuring optimal performance and reduced network congestion. This router supports multiple operating modes including Router, Repeater, and WISP, providing versatile solutions for different networking needs. Advanced features such as Parental Control, Quality of Service (QoS), and Firewall functions enhance network management and security.



Figure 1.1: WAVLINK AC3000 Tri-Band Gigabit WiFi Router with eight external antennas.

2. Package Contents

Please verify that all items are present in your package:

- 1 x WAVLINK AC3000 WiFi Router (Model: WN533A8)
- 1 x Power Adapter
- 1 x Ethernet Cable
- 1 x Quick Start Guide



Figure 2.1: Contents of the WAVLINK AC3000 WiFi Router package, including the router, power adapter, Ethernet cable, and quick start guide.

3. Hardware Overview

Familiarize yourself with the ports, buttons, and indicators on your WAVLINK router.

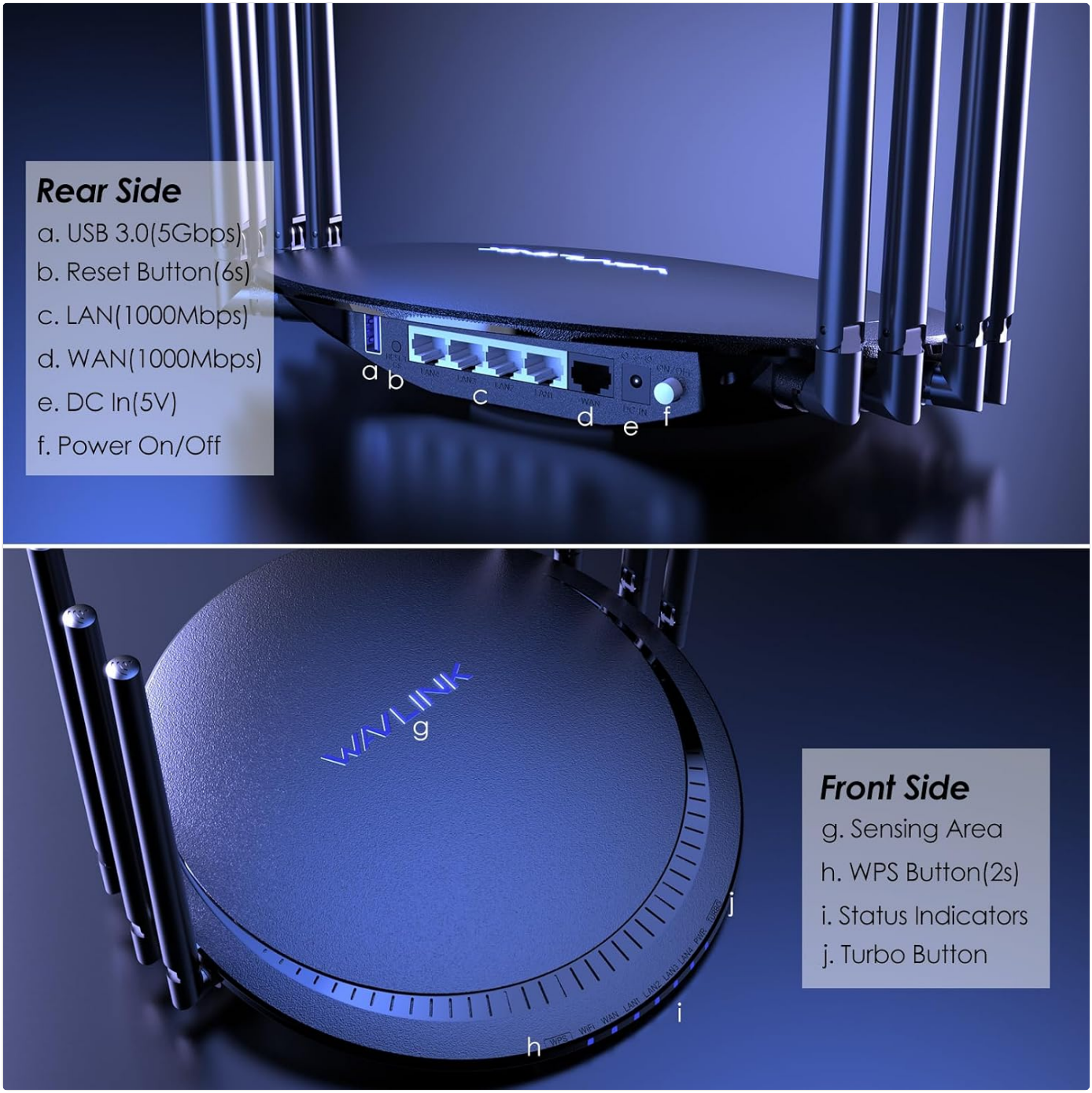

Figure 3.1: Detailed view of the router's rear and front panels.

3.1 Rear Side Ports and Buttons

- **USB 3.0 (5Gbps) Port:** For connecting external storage devices.
- **Reset Button (6s):** Press and hold for 6 seconds to restore factory default settings.
- **LAN (1000Mbps) Ports (x3):** Gigabit Ethernet ports for wired connections to devices like computers or gaming consoles.
- **WAN (1000Mbps) Port:** Gigabit Ethernet port for connecting to your modem or existing router.
- **DC In (5V):** Power input port.
- **Power On/Off Button:** To turn the router on or off.

3.2 Front Side Features

- **Sensing Area:** Used for the TouchLink feature to quickly connect to the guest Wi-Fi.
- **WPS Button (2s):** Press for 2 seconds to initiate Wi-Fi Protected Setup for easy device connection.
- **Status Indicators:** LEDs indicating power, internet connection, Wi-Fi status, and LAN port activity.
- **Turbo Button:** Enhances Wi-Fi performance.

4. Setup and Installation

Follow these steps to set up your WAVLINK AC3000 router.

1. **Power On:** Connect the power adapter to the router's DC In port and plug it into a power outlet. Press the Power On/Off button.
2. **Connect to Modem:** Connect one end of the provided Ethernet cable to the WAN port of the router and the other end to your modem's LAN port.
3. **Connect Devices:** For wired devices, connect an Ethernet cable from a LAN port on the router to your computer or other network device.
4. **Wireless Connection:**
    - Locate the default Wi-Fi SSID (network name) and password printed on the label at the bottom of the router.
    - On your computer or mobile device, select the router's Wi-Fi network and enter the password to connect.
5. **Access Web Management Page:**
    - Open a web browser (e.g., Chrome, Firefox).
    - Type 192.168.10.1 into the address bar and press Enter.
    - Enter the default login password (usually "admin" or as specified on the router label).
6. **Run Setup Wizard:** Follow the on-screen instructions of the setup wizard to configure your internet connection and personalize your Wi-Fi settings (SSID, password).

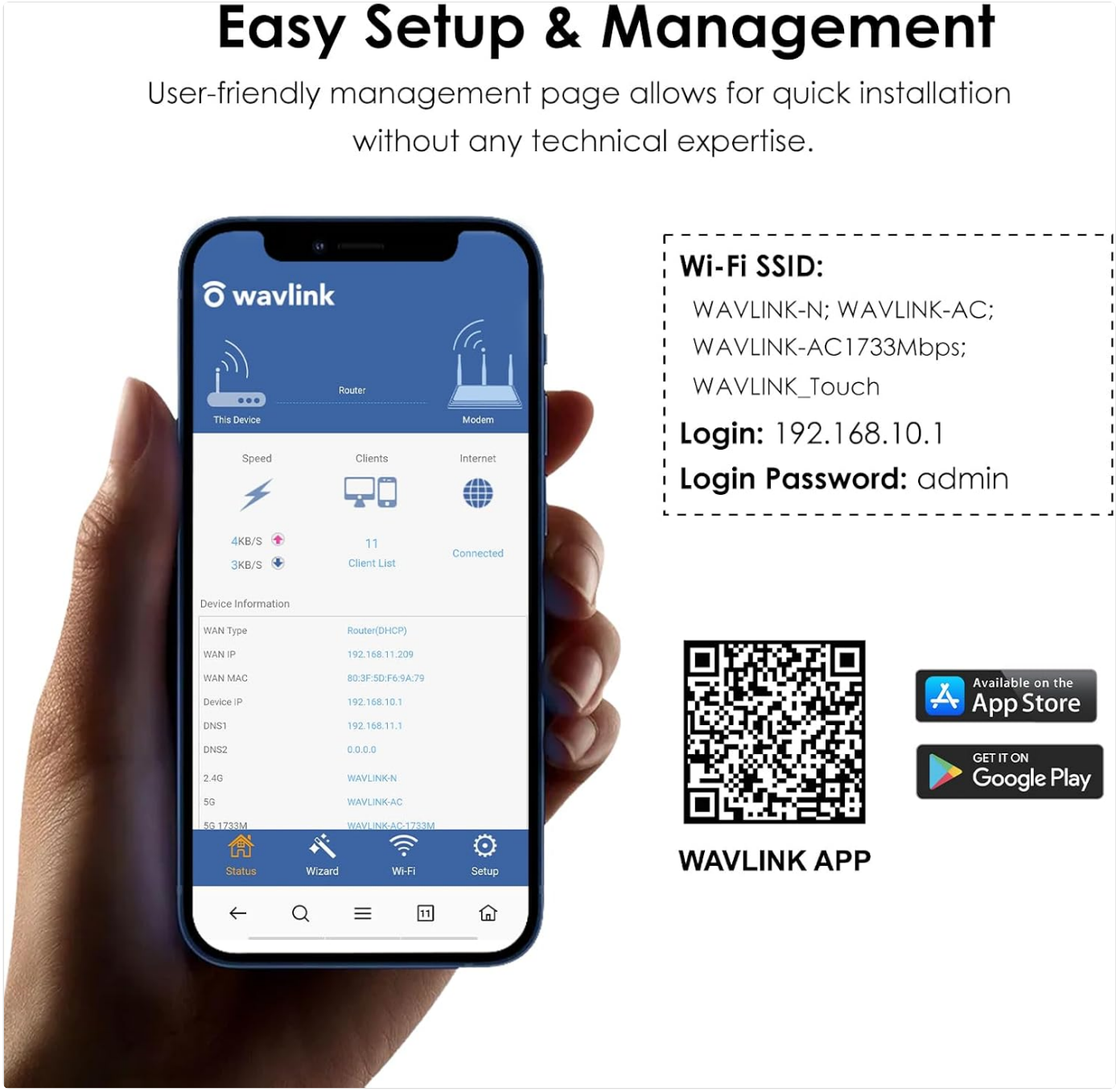

Figure 4.1: The user-friendly management page and mobile app for easy setup and configuration. Download the WAVLINK app from http://apps.wavlink.com/app/wavlink.html.

5. Operating Modes

The WAVLINK AC3000 router supports multiple operating modes to suit various network environments.

5.1 Router/AP Mode

In Router/AP mode, the device functions as a primary router, converting your wired network connection into a wireless network. This is the standard mode for most home and small office setups.

5.2 Repeater Mode

Repeater mode boosts existing Wi-Fi signals and extends the coverage of your current wireless network. This is useful for eliminating Wi-Fi dead zones in larger homes or offices.

5.3 WISP Mode

WISP (Wireless Internet Service Provider) mode allows the router to connect wirelessly to an ISP network and share that

connection with multiple devices, acting as a client and a router simultaneously.

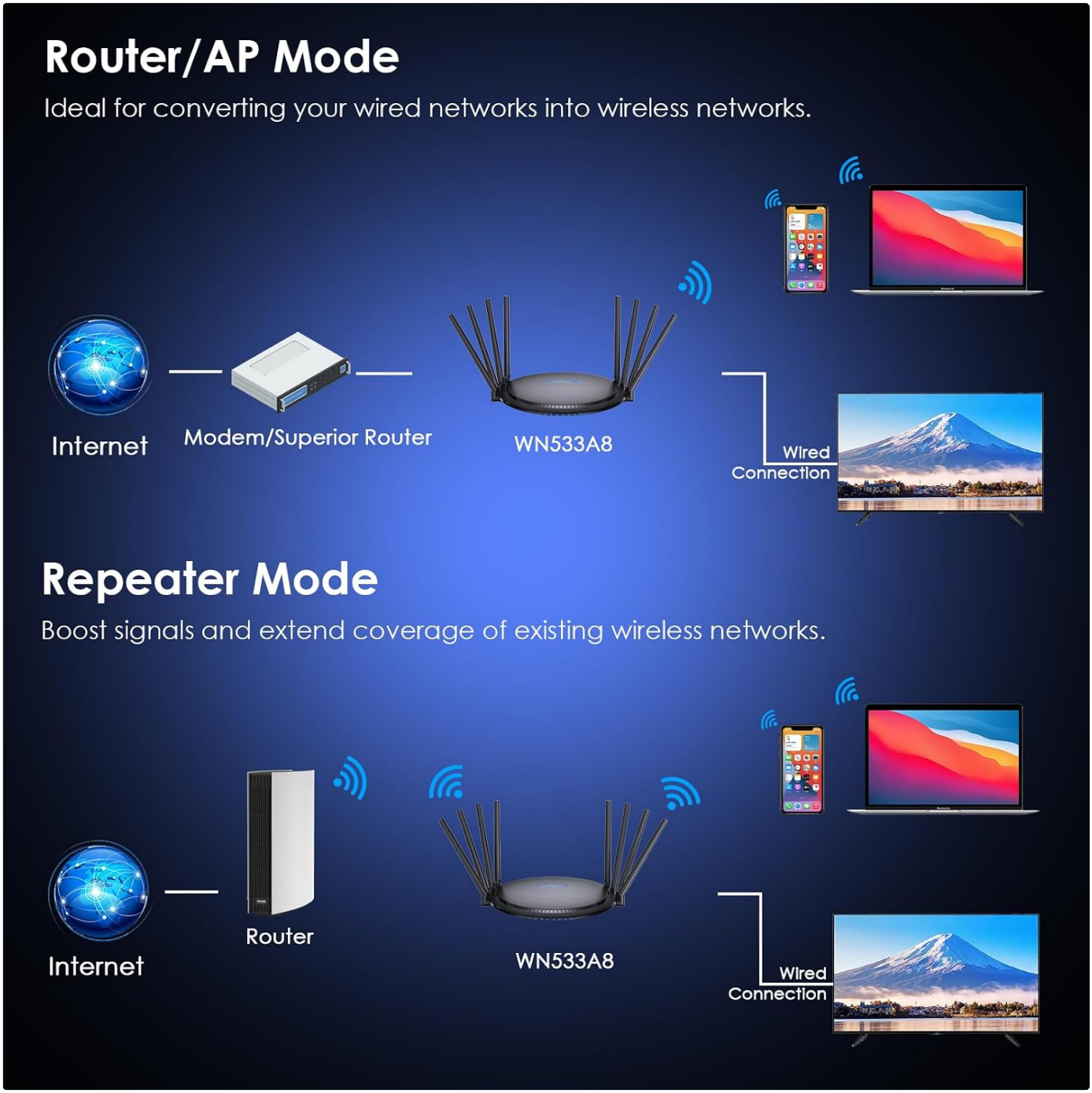

Figure 5.1: Diagrams illustrating the setup for Router/AP mode and Repeater mode.

6. Advanced Features

6.1 Tri-Band Technology

The AC3000 router operates on three distinct Wi-Fi bands: one 2.4GHz band and two 5GHz bands. This allows for more devices to connect simultaneously without compromising speed, ideal for high-bandwidth activities like 4K streaming and online gaming.



Figure 6.1: Illustration of the Tri-Band capabilities, showing 2.4GHz (400Mbps) and two 5GHz bands (867Mbps and 1733Mbps).

6.2 High-Performance Antennas

Equipped with eight high-performance 5dBi external antennas, the router utilizes advanced MU-MIMO and beamforming technologies. This ensures fast and seamless internet access for multiple devices, significantly reducing waiting times and improving signal stability throughout your home.

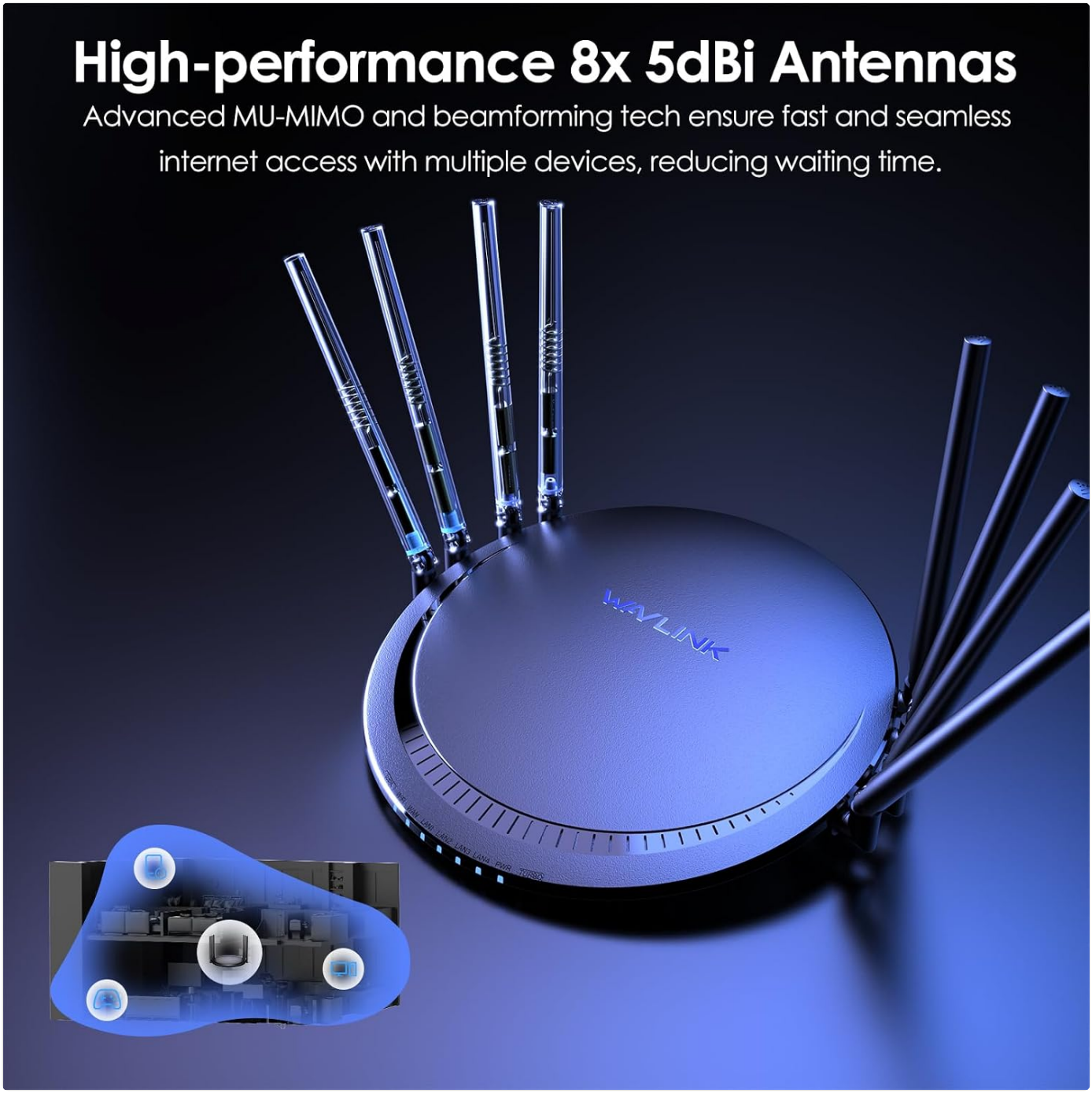

Figure 6.2: Visual representation of the router's eight external antennas and their role in providing wide Wi-Fi coverage.

6.3 Parental Control

Manage and monitor internet access for children or specific devices. You can set time limits, block websites, and restrict content to ensure a safe online environment.

6.4 Quality of Service (QoS)

Prioritize network traffic for specific applications or devices. QoS ensures that critical activities like online gaming or video conferencing receive sufficient bandwidth, preventing lag and buffering.

6.5 Firewall Function

The built-in firewall protects your network from unauthorized access and malicious attacks, enhancing overall network security.

6.6 Patented TouchLink Technology

The TouchLink feature allows for secure and swift connection to a guest Wi-Fi network by simply touching the sensing pad on the router. This eliminates the need to enter a password, making it convenient for visitors.



Figure 6.3: Illustration of the TouchLink sensing pad for quick guest Wi-Fi connection.

7. Maintenance

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

- **Placement:** Place the router in a central location, away from obstructions and interference sources (e.g., microwaves, cordless phones).
- **Cleaning:** Regularly clean the router's exterior with a soft, dry cloth. Do not use liquid cleaners.
- **Firmware Updates:** Periodically check the WAVLINK official website for firmware updates. Keeping your firmware up-to-date ensures the best performance, security, and new features.
- **Rebooting:** If you experience network issues, try rebooting the router by unplugging the power adapter for 10 seconds and then plugging it back in.

8. Troubleshooting

Here are solutions to common issues you might encounter:

Problem	Solution
No Internet Access	Check if the WAN port LED is lit. Ensure the Ethernet cable from the modem is securely connected to the router's WAN port. Reboot both your modem and router. Verify your internet connection settings in the router's web management page.
Weak Wi-Fi Signal or Dead Zones	Relocate the router to a central, open area. Ensure antennas are properly oriented. Consider using Repeater mode if the area is too far from the main router. Check for interference from other electronic devices.
Cannot Access Web Management Page	Ensure your device is connected to the router's Wi-Fi or via an Ethernet cable to a LAN port. Verify you are typing the correct IP address (192.168.10.1). Clear your browser's cache or try a different browser. Temporarily disable any firewall or antivirus software on your computer.
Forgot Wi-Fi Password or Login Password	You can find the default Wi-Fi password on the router's label. To reset the router to factory defaults (which will reset all passwords), press and hold the Reset button for 6 seconds.

Your browser does not support the video tag.

Video 8.1: A demonstration of the gigabit Wi-Fi router's speed capabilities, showing a speed test on a mobile device.

9. Specifications

Feature	Detail
Model Number	WN533A8
Product Dimensions	12.48 x 12.01 x 2.28 inches
Item Weight	3.74 pounds
Brand	WAVLINK
Frequency Band Class	Tri-Band (2.4GHz, 5GHz, 5GHz)
Wireless Communication Standard	802.11ac (AC3000)
Connectivity Technology	Ethernet, Wireless
Number of Ports	3 x LAN, 1 x WAN, 1 x USB 3.0
Special Features	Router/Repeater/WISP Mode, Parental Control, QoS, Firewall Function, TouchLink, MU-MIMO, Beamforming
Included Components	1*AX3000 WiFi Router

10. Warranty and Support

For detailed warranty information, please refer to the documentation included with your product or visit the official WAVLINK website.
Additional support resources:

- User Manual (PDF): Download Here
- Installation Manual (PDF): Download Here
- For further assistance, please contact WAVLINK customer support.

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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