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WAVLINK AX1800

WAVLINK AX1800 Wi-Fi 6 Dual-Band Mesh Router Instruction Manual

Model: AX1800

1. Product Overview

The WAVLINK AX1800 Wi-Fi 6 Router is a high-performance dual-band wireless router designed to provide fast and reliable internet connectivity. Utilizing the latest Wi-Fi 6 (802.11ax) technology, it offers increased capacity, faster speeds up to 1.8Gbps, and improved efficiency for multiple devices on your network. This router supports mesh networking, features four 5dBi high-gain antennas for extended coverage, and includes patented Touchlink technology for simplified Wi-Fi connection.



Image: The WAVLINK AX1800 Wi-Fi 6 Dual-band Mesh Router highlighting its capabilities including 1.8 Gbps speed, 1500 sq.ft. coverage, and support for over 64 devices.

Key Features:

- **Wi-Fi 6 (802.11ax) Technology:** Provides faster transmission rates, reduced congestion, and improved efficiency for multiple devices.
- **Dual-Band AX1800 Speeds:** Simultaneous 573Mbps on 2.4GHz and 1201Mbps on 5GHz.
- **Mesh Networking:** Compatible with EasyMesh technology for seamless whole-home Wi-Fi coverage.
- **4 x 5dBi High-Gain Antennas:** Enhances wireless signal coverage and stability.

- **Gigabit Ports:** Four Gigabit LAN ports for fast wired connections and one Gigabit WAN port.
- **USB 3.0 Port:** Acts as a media server for sharing content from a USB drive.
- **Dual-Core CPU:** Handles multiple tasks and demanding applications efficiently.
- **OFDMA and MU-MIMO:** Improves network efficiency and allows more devices to connect simultaneously.
- **Target Wake Time (TWT):** Reduces power consumption for connected devices.
- **Patented Touchlink Technology:** Enables Wi-Fi connection by simply touching the sensing pad, eliminating the need to memorize complex passwords.
- **Security:** Supports WPA3 security protocol.

2. Package Contents

Before you begin, please verify that all items are present in your package:

- WAVLINK AX1800 Wi-Fi 6 Router
- Power Adapter
- Ethernet Cable
- Quick Start Guide



Image: Contents of the WAVLINK AX1800 router package, including the router, power adapter, Ethernet cable, and quick start guide.

3. Hardware Overview

Ports and Buttons:

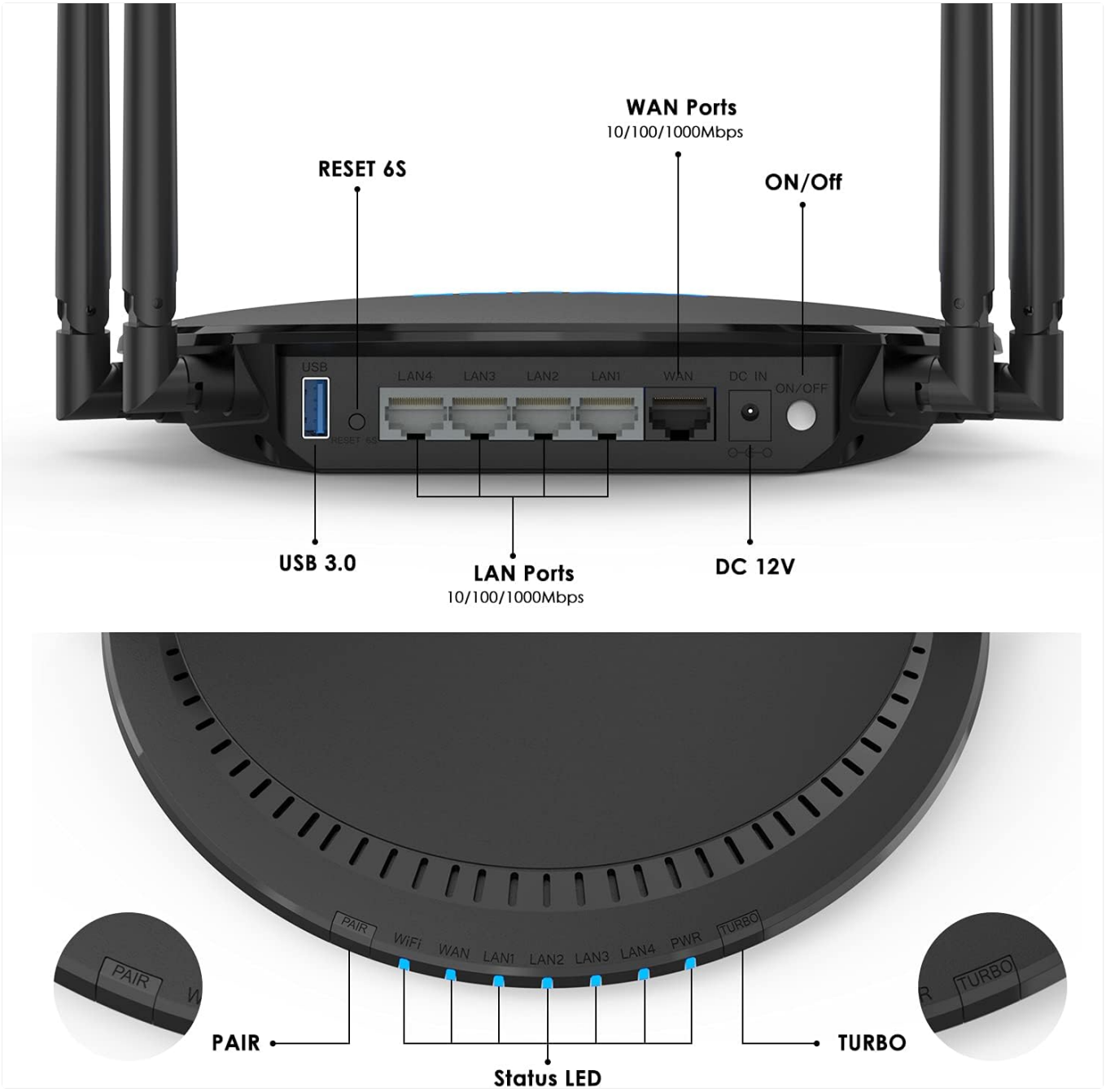

Image: Detailed view of the router's rear panel showing USB 3.0 port, LAN ports (LAN1-LAN4), WAN port, DC 12V power input, ON/OFF switch, and RESET button. Also shown are the bottom LED indicators for PAIR, Wi-Fi, WAN, LAN1-LAN4, PWR, and TURBO.

- **WAN Port (10/100/1000Mbps):** Connects to your modem or main internet line.
- **LAN Ports (LAN1-LAN4, 10/100/1000Mbps):** Connects to wired devices such as computers, gaming consoles, or smart TVs.
- **USB 3.0 Port:** For connecting external storage devices to function as a media server.
- **DC 12V:** Power input port.
- **ON/OFF Switch:** Powers the router on or off.
- **RESET Button:** Press and hold for 6 seconds to restore factory default settings.

LED Indicators:

- **PWR:** Power indicator.

- **WAN:** Indicates WAN port status.
- **LAN1-LAN4:** Indicate status of respective LAN ports.
- **Wi-Fi:** Indicates wireless network activity.
- **PAIR:** Indicates EasyMesh pairing status.
- **TURBO:** Indicates Turbo mode status.

4. Setup Instructions

Follow these steps to set up your WAVLINK AX1800 router:

1. **Connect to Modem:** Connect one end of the provided Ethernet cable to the WAN port of your WAVLINK router and the other end to your modem's LAN port.
2. **Power On:** Connect the power adapter to the router's DC 12V port and plug it into a power outlet. Press the ON/OFF switch to power on the router. Wait for the PWR and WAN LEDs to stabilize.
3. **Connect to Router:** You can connect to the router wirelessly or via an Ethernet cable.
    - **Wireless:** On your computer or mobile device, search for the default Wi-Fi network name (SSID) printed on the label at the bottom of the router. Connect to it using the default password (also on the label).
    - **Wired:** Connect an Ethernet cable from one of the router's LAN ports to your computer's Ethernet port.
4. **Access Web Management Page:** Open a web browser and enter the default IP address or domain name (e.g., wifi.wavlink.com or 192.168.10.1) into the address bar.
5. **Login:** Enter the default username and password (usually 'admin' for both, check the router's label).
6. **Follow Setup Wizard:** The router's web interface will guide you through the initial setup process, including changing the default Wi-Fi name and password, and configuring internet settings.



Image: Visual guide for easy setup, showing connecting to modem, powering on, logging into the web management page, and following setup settings.

5. Operating Instructions

Wireless Connectivity:

The AX1800 router operates on both 2.4GHz and 5GHz bands. Devices will automatically connect to the optimal band for performance. For devices supporting Wi-Fi 6, you will experience enhanced speeds and efficiency.



Image: Illustration of the WAVLINK AX1800 router providing secure Wi-Fi network for over 64 devices, supporting WPA2/WPA3 mix and IPv6 protocol.

Touchlink Technology:

To connect a device using Touchlink, simply touch the sensing pad on the router. This will temporarily enable a password-free connection for new devices, simplifying the connection process.



Image: Diagram explaining Touchlink Technology, showing one-touch password-free connection, easy sharing, and no need to remember complex passwords.

Mesh Networking:

The router supports EasyMesh technology, allowing you to create a seamless whole-home Wi-Fi network by adding compatible WAVLINK mesh extenders or access points. This eliminates Wi-Fi dead zones and provides consistent coverage.

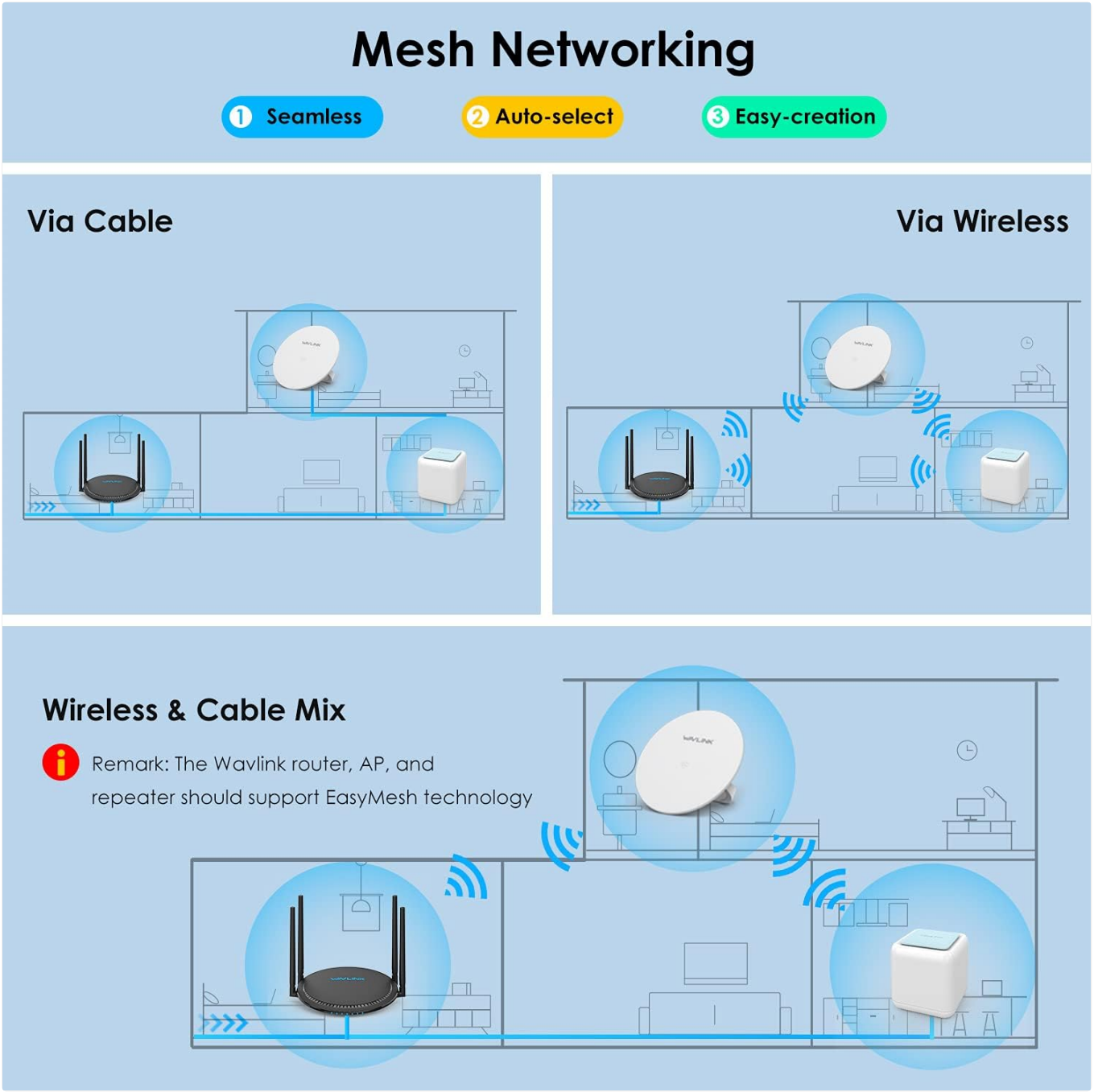

Image: Illustrations demonstrating Mesh Networking configurations via cable, via wireless, and a wireless & cable mix, emphasizing seamless, auto-select, and easy creation features.

Advanced Features:

- **Parental Control:** Manage internet access times and content for connected devices.
- **Quality of Service (QoS):** Prioritize network traffic for specific applications or devices to ensure optimal performance.
- **Firewall Function:** Provides network security against unauthorized access and threats.
- **USB Media Server:** Access files stored on a USB drive connected to the router from any device on your network.

6. Maintenance

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

- **Firmware Updates:** Regularly check the WAVLINK official website for firmware updates. Updating the firmware can improve performance, add new features, and enhance security.
- **Regular Reboot:** Rebooting your router periodically (e.g., once a month) can help clear its memory and resolve minor connectivity issues.

- **Physical Placement:** Place the router in a central location, away from obstructions and other electronic devices that may cause interference.
- **Security:** Use strong, unique passwords for your Wi-Fi network and router's administration page. Enable WPA3 encryption for enhanced security.

7. Troubleshooting

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

- **No Internet Access:**
  - Check if the WAN LED is lit. If not, ensure the Ethernet cable from your modem is securely connected to the router's WAN port.
  - Reboot your modem and then your router. Wait a few minutes for both devices to fully restart.
  - Verify your internet service provider (ISP) connection is active.
- **Slow Wi-Fi Speed:**
  - Ensure your devices are connected to the 5GHz band if they support it, as it generally offers faster speeds.
  - Reduce the distance between your device and the router, and remove any physical obstructions.
  - Check for interference from other electronic devices (e.g., microwaves, cordless phones).
  - Limit the number of active devices or bandwidth-intensive applications.
- **Cannot Access Router's Web Interface:**
  - Ensure your device is connected to the router's network (either wired or wirelessly).
  - Verify you are using the correct IP address or domain name (e.g., wifi.wavlink.com or 192.168.10.1).
  - Try clearing your browser's cache or using a different browser.
- **Forgot Wi-Fi Password or Admin Password:**
  - Perform a factory reset by pressing and holding the RESET button for 6 seconds. This will revert all settings to their factory defaults, including Wi-Fi and admin passwords (which can be found on the router's label).

8. Specifications

Product Dimensions	9.84 x 7.87 x 3.15 inches
Item Weight	3.72 pounds
Brand	WAVLINK
Frequency Band Class	Dual-Band
Wireless Communication Standard	5 GHz Radio Frequency, 802.11ax
Compatible Devices	Router, Modem Combo
Included Components	Ethernet Cable
Connectivity Technology	Ethernet, Wireless, Wired
Antenna Type	Fixed, Omni-directional (4 x 5dBi)
Operating System	RouterOS (Internal)

Number of Ports	3 (1 WAN, 2 LAN - Note: Product images show 1 WAN, 4 LAN. Please refer to physical product for exact count.)

9. Warranty and Support

WAVLINK provides the following support for your AX1800 router:

- **Warranty:** 1-year hassle-free warranty.
- **Returns/Replacements:** 30-day free refund or replacement.
- **Customer Service:** Friendly customer service is available to assist with any questions or issues. Please refer to the contact information provided in your Quick Start Guide or on the official WAVLINK website for support.

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.

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Anonymous

Email

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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.

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