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› Adium LV-AC22 1200Mbps Wireless Router User Manual

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Adium LV-AC22 1200Mbps Wireless Router User Manual

Brand: **ADIUM** | Model: **LV-AC22**

1. INTRODUCTION

This manual provides comprehensive instructions for setting up, operating, and maintaining your Adium LV-AC22 1200Mbps Wireless Router. This dual-band Gigabit router is designed to provide high-speed internet access and reliable wireless coverage for your home or office. Please read this manual carefully before using the device to ensure proper installation and optimal performance.

2. PRODUCT OVERVIEW

2.1 Key Features

- 1200Mbps Dual-Band Wi-Fi (300Mbps on 2.4GHz, 867Mbps on 5GHz)
- Full Gigabit Ports (1 WAN, 4 LAN) for high-speed wired connections
- 4 High-Gain External Antennas for wide coverage
- MU-MIMO Technology for efficient data transfer to multiple devices
- Supports 802.11ac Wi-Fi standard

2.2 Package Contents

Ensure all items are present in the package:

- Adium LV-AC22 Wireless Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide (this manual)

2.3 Hardware Components



Figure 2.3.1: Front View of the Router

Shows the router's front panel with LED indicators for power, internet, 2.4GHz Wi-Fi, 5GHz Wi-Fi, LAN activity, and WPS/Reset button.

Full Gigabit Ports

One Gigabit WAN port and four Gigabit LAN ports deliver speeds up to 10x faster than standard Ethernet connections, every member of your family can enjoy high-speed network on their phones, tablets and laptops simultaneously

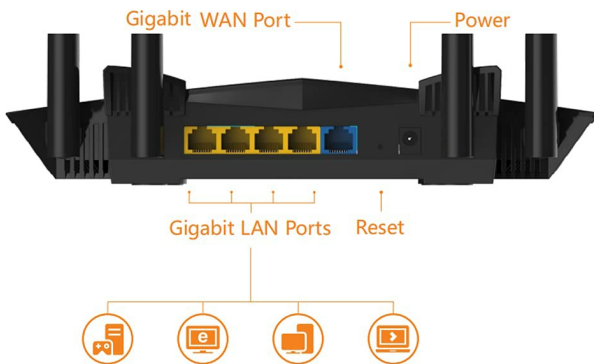


Figure 2.3.2: Rear Panel Ports

Illustrates the Gigabit WAN port (blue), four Gigabit LAN ports (yellow), power input, and the recessed reset button.

Fast Transmission Speed

802.11ac provides a data transfer rate 3 times faster than 802.11n for each stream



Figure 2.3.3: Four Antennas Design

Highlights the four external antennas, which are crucial for improving Wi-Fi signal transmission and coverage throughout your home.

3. SETUP GUIDE

3.1 Step 1: Unboxing and Placement

1. Carefully remove the router and all accessories from the packaging.
2. Place the router in a central location in your home or office, away from obstructions, large metal objects, and direct sunlight. An elevated position is recommended for optimal signal distribution.
3. Orient the four external antennas vertically for best performance.

3.2 Step 2: Connecting the Router

1. **Connect to Modem:** Connect one end of the provided Ethernet cable to the WAN port (blue) on the back of the router. Connect the other end to the LAN port on your modem or existing internet connection device.
2. **Connect to Power:** Plug the power adapter into the router's power input port and then into a standard electrical outlet. The Power LED on the front of the router should illuminate.
3. **Connect Devices (Optional):** For wired connections, connect your computer or other network devices to any of the yellow Gigabit LAN ports on the router using Ethernet cables.

3.3 Step 3: Initial Configuration (Web Interface)

1. **Access Router:** Open a web browser on a computer connected to the router (either via Wi-Fi or Ethernet). In the address bar, type the default IP address (commonly **192.168.1.1** or **192.168.0.1**) and press Enter. Refer to the sticker on the bottom of your router for the exact default IP address and login credentials.
2. **Login:** Enter the default username and password (commonly **admin/admin** or **admin/password**). You will be prompted to change these for security.
3. **Run Setup Wizard:** Follow the on-screen setup wizard to configure your internet connection type (e.g., PPPoE, Dynamic IP, Static IP) and set up your Wi-Fi network name (SSID) and password for both 2.4GHz and 5GHz bands.

4. **Save Settings:** Save your configuration settings and reboot the router if prompted.

4. OPERATING INSTRUCTIONS

4.1 Connecting Devices

- **Wi-Fi Connection:** On your wireless device (smartphone, laptop, tablet), search for available Wi-Fi networks. Select the SSID you configured during setup (e.g., "MyHomeWiFi_2.4G" or "MyHomeWiFi_5G") and enter the Wi-Fi password.
- **Wired Connection:** Connect devices such as desktop computers, gaming consoles, or smart TVs to the router's yellow LAN ports using Ethernet cables for a stable and high-speed connection.

4.2 Dual-Band Operation (2.4GHz and 5GHz)

2.4G+5G Dual-frequency

The strong 2.4GHz(300Mbps) Wi-Fi band is perfect for sending emails, browsing the web, and listening to music. The 5GHz Wi-Fi band reaches 867Mbps so you can game online and stream simultaneously



* The actual transmission rate will vary depending on the environment

Figure 4.2.1: Dual-Band Wi-Fi Capabilities

Shows the 2.4GHz band (up to 300Mbps) for wider coverage and better penetration, and the 5GHz band (up to 867Mbps) for faster speeds and less interference, ideal for streaming and gaming.

The LV-AC22 router operates on two distinct Wi-Fi bands:

- **2.4GHz Band:** Provides wider coverage and better penetration through walls and obstacles. Ideal for general internet use like browsing, email, and connecting older devices. Max speed 300Mbps.
- **5GHz Band:** Offers faster speeds and less interference, making it suitable for bandwidth-intensive activities such as online gaming, HD video streaming, and large file transfers. Max speed 867Mbps.

You can connect your devices to either band based on your needs and device compatibility.

4.3 MU-MIMO Technology

1200Mbps 4-antenna Gigabit WiFi Router



867Mbps 5GHz +
300Mbps 2.4GHz



Faster Wi-Fi
with MU-MIMO



Full Gigabit
Ports

Figure 4.3.1: Router Features Overview

This image highlights the router's key specifications including 1200Mbps total speed, 4 antennas, Gigabit ports, and the inclusion of MU-MIMO technology.

The LV-AC22 router incorporates MU-MIMO (Multi-User, Multiple-Input, Multiple-Output) technology. This allows the router to communicate with multiple devices simultaneously, rather than sequentially. This significantly improves network efficiency, reduces wait times, and enhances throughput for every connected device, especially in environments with many Wi-Fi clients.

4.4 Advanced Settings

You can access the router's web interface (as described in Section 3.3) to configure advanced settings, including:

- **Guest Network:** Create a separate Wi-Fi network for guests to keep your main network secure.
- **Parental Controls:** Manage internet access times and block specific websites for connected devices.
- **Quality of Service (QoS):** Prioritize network traffic for specific applications or devices (e.g., prioritize gaming or video streaming).
- **Port Forwarding/Triggering:** Configure rules for specific applications or services.
- **VPN Server/Client:** Set up VPN connections (if supported by firmware).

5. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your router.

- **Firmware Updates:** Periodically check the ADIUM official website for firmware updates. Updating the firmware can improve performance, add new features, and fix security vulnerabilities. Follow the instructions provided with the firmware update carefully.
- **Regular Rebooting:** Rebooting your router every few weeks can help clear its memory and resolve minor performance issues. Simply unplug the power adapter, wait 10 seconds, and plug it back in.
- **Cleaning:** Keep the router clean and free of dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or aerosols. Ensure ventilation holes are not blocked.
- **Password Security:** Regularly change your router's login password and Wi-Fi passwords to prevent unauthorized access.

6. TROUBLESHOOTING

If you encounter issues with your router, refer to the following common problems and solutions:

Problem	Possible Solution
No Internet Connection	<ul style="list-style-type: none"> ◦ Check if the WAN LED on the router is lit. If not, ensure the Ethernet cable from the modem is securely connected to the router's WAN port. ◦ Reboot your modem and then your router. ◦ Verify your internet connection type and settings in the router's web interface. ◦ Contact your Internet Service Provider (ISP) to check for service outages.
Slow Wi-Fi Speed	<ul style="list-style-type: none"> ◦ Ensure your device is connected to the 5GHz band if it supports it, for faster speeds. ◦ Reduce the distance between your device and the router, and remove any obstructions. ◦ Check for Wi-Fi interference from other electronic devices (e.g., cordless phones, microwaves). ◦ Limit the number of devices simultaneously streaming or downloading. ◦ Update your router's firmware.
Cannot Access Router Settings (192.168.1.1)	<ul style="list-style-type: none"> ◦ Ensure your computer is connected to the router's network (wired or wireless). ◦ Verify the correct IP address. Try 192.168.0.1 if 192.168.1.1 doesn't work. ◦ Clear your browser's cache and cookies, or try a different browser. ◦ Temporarily disable any firewall or antivirus software on your computer.
Forgot Wi-Fi Password or Router Login Password	<ul style="list-style-type: none"> ◦ Reset the Router: With the router powered on, use a paperclip or pin to press and hold the recessed Reset button on the back panel for about 5-10 seconds until the LEDs flash. This will restore the router to factory default settings, including default Wi-Fi and login passwords. You will need to reconfigure the router after a factory reset.

7. SPECIFICATIONS

Feature	Detail
Brand	ADIUM
Model Number	LV-AC22 (Item model number: CHB9S9G3XHAadium)
Wi-Fi Standard	IEEE 802.11ac/n/a 5GHz, IEEE 802.11n/b/g 2.4GHz
Wi-Fi Speed	1200Mbps (867Mbps on 5GHz, 300Mbps on 2.4GHz)
Antennas	4 External High-Gain Antennas
Ethernet Ports	1 Gigabit WAN Port, 4 Gigabit LAN Ports
Dimensions (LxWxH)	15 x 5 x 10 cm
Manufacturer	Adium
Power Supply	External Power Adapter (EU Plug)
Technology	MU-MIMO

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. ADIUM provides customer support for its products.

In case of any query or technical assistance, please contact the seller or ADIUM customer support directly. Contact details may be available on the product packaging or the official ADIUM website.