Cudy WR3000S

Cudy WR3000S AX3000 Dual Band WiFi 6 Mesh Router User Manual

Model: WR3000S

Product Overview

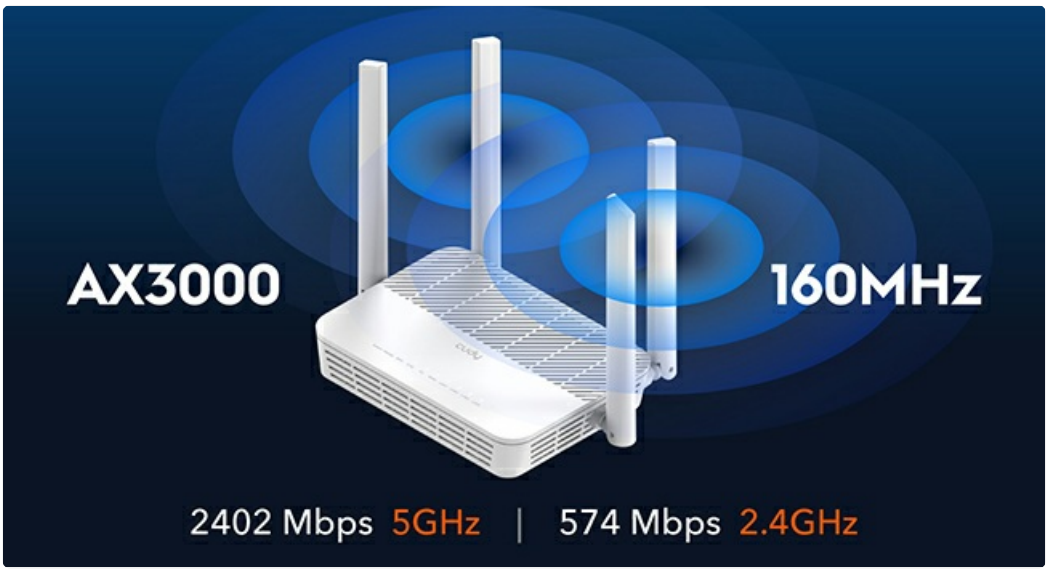
The Cudy WR3000S AX3000 is a high-performance dual-band Wi-Fi 6 mesh router designed to provide fast, stable, and extensive wireless coverage for your home or office network. Equipped with advanced features and a powerful processor, it ensures a seamless internet experience for multiple devices.



A white Cudy WR3000S AX3000 Dual Band WiFi 6 Mesh Router with four external antennas, showing the front panel with indicator lights for System, Internet, WPS, 2.4G, 5G, WAN, and LAN ports.

Key Features:

- **Super fast 5-Stream AX3000 Dual Band Wi-Fi 6:**Supports up to 2400Mbps on 5GHz and 574 Mbps on 2.4GHz for high-speed data transfer.
- **Powerful 1.3GHz Dual Core Cortex-A53 Processor:** Delivers impressive efficiency and handles multiple tasks with ease.
- **Extensive VPN Protocol Support:** Enables secure remote access with PPTP, L2TP, WireGuard, OpenVPN, IPsec, and Zerotier VPN protocols.
- **Designed for More Devices:** Capable of connecting up to 256 devices, ensuring efficient network performance for everyone.
- **DL/UL OFDMA & MU-MIMO Technology:** Revolutionary combination for simultaneous data transmission and improved network efficiency.



An image highlighting the AX3000 dual-band Wi-Fi 6 capabilities, showing 2402 Mbps on 5GHz and 574 Mbps on 2.4GHz, with a visual representation of Wi-Fi signals.

Experience next-generation Wi-Fi 6 speeds that eliminate throttling and provide a smooth online experience for gaming, 4K streaming, and more.



A graphic showcasing the router's powerful 1.3GHz Dual Core Cortex-A53 processor (MediaTek Filogic 820), emphasizing its 128 MB ROM and 256 MB RAM.

The robust 1.3GHz Dual Core Cortex-A53 processor ensures rapid data transmission and efficient operation, supported by ample 128MB ROM and 256MB RAM.



An illustration demonstrating the broad Wi-Fi coverage provided by the router's 5 dBi antennas and 5-stream technology, showing signals reaching devices throughout a home layout.

With four external 5 dBi antennas and 5-stream technology, the WR3000S provides broad and reliable Wi-Fi coverage throughout your home.

Setup Guide

1. Package Contents

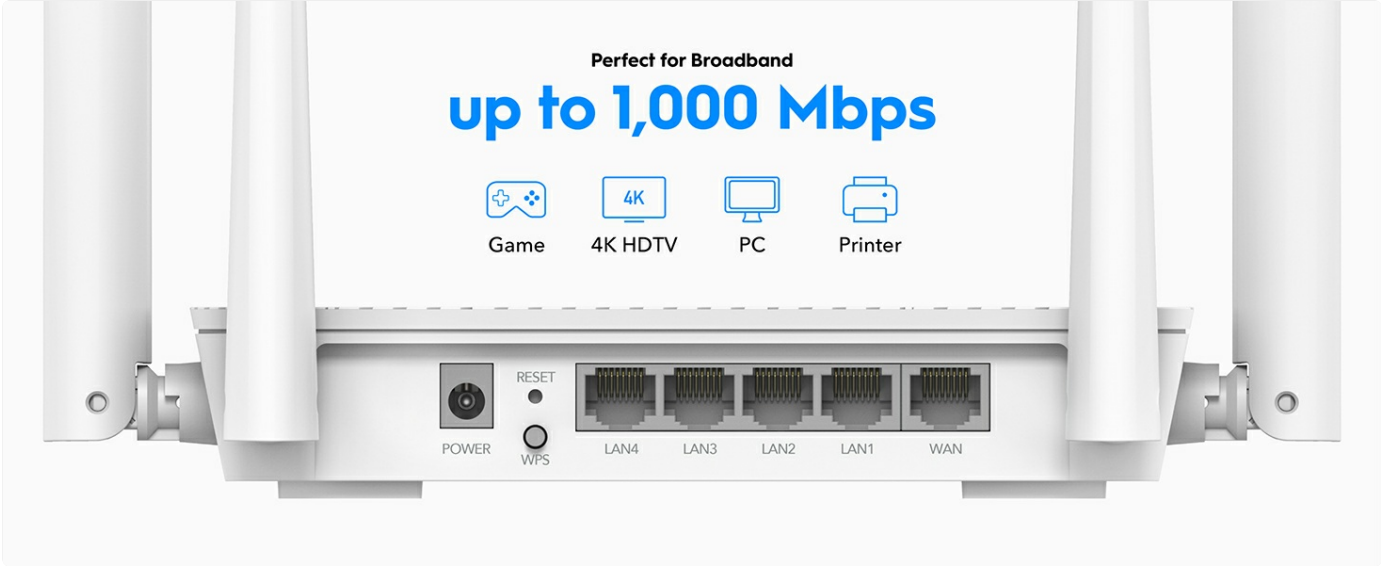
- Cudy WR3000S AX3000 Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide

2. Hardware Overview

Front Panel Indicators

- **System LED:** Indicates system status.
- **Internet LED:** Indicates internet connection status.
- **WPS LED:** Indicates WPS activity.
- **2.4G LED:** Indicates 2.4GHz Wi-Fi status.
- **5G LED:** Indicates 5GHz Wi-Fi status.
- **WAN LED:** Indicates WAN port activity.
- **LAN1-LAN4 LEDs:** Indicate LAN port activity.

Rear Panel Ports and Buttons



A detailed view of the router's rear panel, displaying the power port, reset button, WPS button, four Gigabit LAN ports, and one Gigabit WAN port, suitable for broadband connections up to 1,000 Mbps.

- **Power Port:** Connects to the power adapter.
- **Reset Button:** Press and hold for 5-10 seconds to restore factory default settings.
- **WPS Button:** Press to initiate Wi-Fi Protected Setup for easy device connection.
- **LAN Ports (1-4):** Connect to local network devices such as computers, smart TVs, or gaming consoles.
- **WAN Port:** Connects to your modem or internet service provider's (ISP) network.

3. Initial Setup

1. **Connect Hardware:**

   a. Power off your modem.

   b. Connect the WAN port of the Cudy WR3000S to your modem's Ethernet port using the provided Ethernet cable.

   c. Power on your modem, then power on the Cudy WR3000S.

   d. Connect your computer to one of the LAN ports on the router using an Ethernet cable, or connect wirelessly using the default Wi-Fi SSID and password found on the label at the bottom of the router.

2. **Access Web Management Interface:**

   a. Open a web browser (e.g., Chrome, Firefox, Edge) and enter **http://cudy.net** or **http://192.168.10.1** in the address bar.

   b. Follow the on-screen instructions for initial setup. This typically includes setting up your internet connection type (e.g., DHCP, Static IP, PPPoE) and configuring your new Wi-Fi network name (SSID) and password.

Operating Instructions

Wi-Fi Configuration

Once the initial setup is complete, you can further customize your Wi-Fi settings through the web management interface. Navigate to the Wireless settings section to:

- Change your 2.4GHz and 5GHz Wi-Fi network names (SSIDs).

- Update your Wi-Fi passwords and security types (WPA2/WPA3 recommended).
- Enable or disable guest networks.
- Adjust Wi-Fi channel and bandwidth for optimal performance.

VPN Client/Server Setup



Icons representing the various VPN protocols supported by the router, including WireGuard, OpenVPN, Zerotier, L2TP, IPsec, and PPTP, highlighting its secure remote access capabilities.

The Cudy WR3000S supports a wide range of VPN protocols, allowing you to secure your network traffic or access your home network remotely:

- **VPN Client:** To configure the router to connect to an external VPN service, navigate to the VPN section in the web interface and select the desired protocol (e.g., OpenVPN, WireGuard). Enter the server details provided by your VPN service provider.
- **VPN Server:** To set up a VPN server on your router, allowing secure remote access to your home network, follow the specific instructions within the VPN server configuration section of the web interface.

Mesh Network Setup

The Cudy WR3000S supports Cudy Mesh technology, enabling you to create a seamless whole-home Wi-Fi system for extended coverage and eliminate dead zones. To expand your network:

- Acquire compatible Cudy Mesh devices (e.g., another WR3000S or other Cudy Mesh-enabled routers/extenders).
- Follow the instructions provided with your Cudy Mesh devices to add them to your existing WR3000S network. The system will automatically configure them for optimal performance.

Using the Cudy App

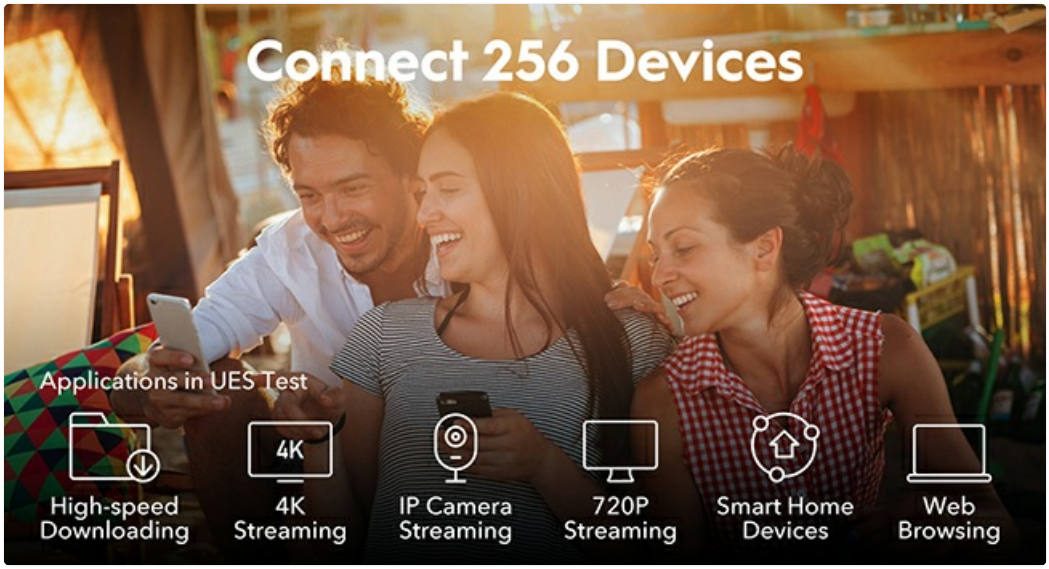


An image featuring the Cudy App logo and screenshots of the app interface on smartphones, illustrating how users can manage their home network effortlessly from their mobile devices.

Manage your Cudy WR3000S router conveniently from your smartphone:

1. Download the **Cudy App** from the Apple App Store (for iOS devices) or Google Play Store (for Android devices).

2. Launch the app and follow the on-screen prompts to connect to your Cudy router.
3. The app provides an intuitive interface for quick setup, network monitoring, parental controls, guest network management, and more.



An image depicting multiple people happily using various devices, symbolizing the router's capability to connect up to 256 devices simultaneously for high-speed downloading, 4K streaming, IP camera streaming, 720p streaming, smart home devices, and web browsing.



A graphic illustrating the DL/UL OFDMA and MU-MIMO technologies, showing data being transmitted simultaneously to multiple devices for 8x efficiency, with two game controllers in the foreground.

Maintenance

Firmware Updates

Regularly checking for and installing firmware updates is crucial for maintaining optimal performance, security, and compatibility of your Cudy WR3000S router. Updates often include bug fixes, new features, and security enhancements.

- Visit the official Cudy website (www.cudy.com) to download the latest firmware for your WR3000S model.

- Access the router's web management interface and navigate to the System Tools or Firmware Upgrade section to apply the update. Follow the on-screen instructions carefully.

Router Placement

Proper placement of your router significantly impacts Wi-Fi coverage and performance:

- **Central Location:** Place the router in a central location within your home to ensure even signal distribution.
- **Avoid Obstructions:** Keep the router away from large metal objects, thick walls, and other physical obstructions that can block Wi-Fi signals.
- **Minimize Interference:** Position the router away from sources of electromagnetic interference, such as microwaves, cordless phones, and Bluetooth devices.
- **Ventilation:** Ensure adequate airflow around the router to prevent overheating, which can affect performance and longevity.

Regular Reboot

Periodically rebooting your router can help resolve minor network glitches, clear its memory, and improve overall performance and stability. It is recommended to reboot your router at least once a month, or whenever you experience connectivity issues.

- To reboot, simply unplug the power adapter from the router, wait for about 10-15 seconds, and then plug it back in.

Troubleshooting

This section provides solutions to common issues you might encounter with your Cudy WR3000S router.

No Internet Connection

- **Check Cables:** Ensure all Ethernet cables are securely connected to the correct ports on both the router and your modem.
- **LED Indicators:** Verify that the Internet LED on the router is lit and stable. If not, check your modem's status.
- **Reboot Devices:** Power cycle your modem first, wait for it to fully boot up, then power cycle your Cudy router.
- **ISP Status:** Contact your Internet Service Provider (ISP) to confirm there are no service outages in your area.

Slow Wi-Fi Speed

- **Band Selection:** Ensure your devices are connected to the appropriate Wi-Fi band (5GHz for faster speeds, 2.4GHz for wider coverage and better penetration through walls).
- **Reduce Interference:** Move the router away from other electronic devices that might cause interference.
- **Firmware Update:** Ensure your router's firmware is up to date.
- **Device Count:** While the router supports many devices, excessive simultaneous high-bandwidth usage can impact overall speed. Consider reducing the number of active devices or upgrading your internet plan.

Cannot Access Web Management Interface

- **Connection:** Confirm your device is connected to the router's network (either via Ethernet cable or Wi-Fi).

- **IP Address:** Double-check that you are using the correct default access address:**http://cudy.net** or **http://192.168.10.1**.
- **Browser Issues:** Try clearing your browser's cache and cookies, or use a different web browser.
- **Firewall/Antivirus:** Temporarily disable any firewall or antivirus software on your computer that might be blocking access.

Wi-Fi Signal Drops Frequently

- **Antenna Adjustment:** Adjust the router's antennas to different angles to optimize signal strength.
- **Router Placement:** Relocate the router to a more central and open area, away from large obstacles.
- **Channel Interference:** In the web management interface, try changing the Wi-Fi channel to a less congested one.
- **Mesh System:** For larger homes or areas with many dead zones, consider expanding your network with additional Cudy Mesh devices.

SPECIFICATIONS

Technical Specifications

Feature	Detail
Model	WR3000S
Wi-Fi Standard	Wi-Fi 6 (802.11ax)
Wi-Fi Speed	AX3000 (2402 Mbps on 5GHz, 574 Mbps on 2.4GHz)
Processor	1.3GHz Dual Core Cortex-A53
Memory	128MB ROM, 256MB RAM
Ethernet Ports	1x Gigabit WAN, 4x Gigabit LAN
Antennas	4x External 5 dBi Antennas
Dimensions	4.88 x 1.3 x 6.81 inches
Item Weight	14.1 ounces
VPN Support	PPTP, L2TP, WireGuard, OpenVPN, IPsec, Zerotier
Special Features	Access Point Mode, Beamforming, MU-MIMO, OFDMA, Cudy App, Whole Home Mesh

Warranty and Support

Warranty Information

Cudy products are designed for reliability and performance. For detailed warranty information specific to your Cudy WR3000S AX3000 router, please refer to the warranty card included in your product packaging. You can also find the most up-to-date warranty policy on the official Cudy website.

Technical Support

Should you encounter any issues or have questions regarding the setup, operation, or maintenance of your Cudy WR3000S router, comprehensive technical support is available:

- **Online Resources:** Visit the Cudy support website for FAQs, troubleshooting guides, and firmware downloads.
- **Contact Support:** If you require further assistance, please contact Cudy customer service through the channels provided on their official website.

Official Cudy Website: www.cudy.com

© 2025 Cudy. All rights reserved.

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