

## Cudy WR3000E

# Cudy WR3000E AX3000 Wi-Fi 6 Mesh Router User Manual

Model: WR3000E

## 1. INTRODUCTION

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This manual provides detailed instructions for setting up, operating, and maintaining your Cudy WR3000E AX3000 Gigabit Dual Band Wi-Fi 6 Mesh Router. The WR3000E is designed to deliver ultra-fast Wi-Fi 6 speeds, extensive coverage, and robust network management capabilities for your home or office.

Key features include AX3000 dual-band Wi-Fi for speeds up to 3000Mbps, support for up to 200 devices, advanced DL/UL OFDMA and MU-MIMO technologies, Smart Beamforming, and multiple VPN protocols (PPTP, L2TP, WireGuard, OpenVPN, IPSec, ZeroTier). Manage your network conveniently with the Cudy Cloud App.

# Faster, Stronger, More Stable Wi-Fi Than Ever



**Image 1.1:** The Cudy WR3000E router highlighting its advanced Wi-Fi 6 capabilities for a faster, stronger, and more stable wireless connection.

## 2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- Cudy WR3000E AX3000 Wi-Fi 6 Mesh Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide

### 3. PHYSICAL OVERVIEW

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Familiarize yourself with the router's components and indicators.



**Image 3.1:** Front view of the Cudy WR3000E router, showing its four external antennas and LED indicators.

#### 3.1. LED Indicators

- **Power LED:** Indicates power status. Solid green for normal operation.
- **Internet LED:** Indicates internet connection status. Solid green for active connection.
- **Wi-Fi LED:** Indicates Wi-Fi activity. Solid green when Wi-Fi is enabled.
- **LAN LEDs:** Indicate connection status for LAN ports.

#### 3.2. Ports and Buttons

# Perfect for Broadband up to 1,000 Mbps



Game



4K HDTV



PC



Printer



**Image 3.2:** Rear panel of the Cudy WR3000E router, displaying the WAN port, multiple LAN ports, Reset button, and Power input.

- **WAN Port:** Connects to your modem or internet service provider's (ISP) device.
- **LAN Ports (1-4):** Connect to wired devices such as computers, gaming consoles, or smart TVs.
- **Reset Button:** Press and hold for 6-8 seconds to restore factory default settings.
- **Power Port:** Connects to the included power adapter.
- **Power Button:** Turns the router on or off.

# Broad Coverage with 5 dBi Antennas and 5 Streams



3 streams in 5 GHz, 2 streams in 2.4 GHz

**Image 3.3:** Illustration of the Cudy WR3000E's extensive Wi-Fi coverage, achieved through its 5 dBi antennas and 5 data streams (3 in 5 GHz, 2 in 2.4 GHz).

## 4. SETUP GUIDE

Follow these steps for initial router setup:

1. **Power Off Your Modem:** Disconnect the power from your existing modem.
2. **Connect the Router:**
  - Connect one end of the Ethernet cable to the WAN port of your Cudy WR3000E router.
  - Connect the other end of the Ethernet cable to your modem's Ethernet port.

### **3. Power On Devices:**

- Connect the power adapter to the router's power port and plug it into an electrical outlet.
- Power on your modem first, then wait for its indicator lights to stabilize.
- Power on the Cudy WR3000E router. Wait for the Power and Internet LEDs to turn solid green.

### **4. Connect to Wi-Fi:**

- On your computer or mobile device, search for the Wi-Fi network name (SSID) printed on the label at the bottom of your router.
- Connect to this network using the Wi-Fi password (Wireless Key) also found on the router's label.

### **5. Access Web Management Interface:**

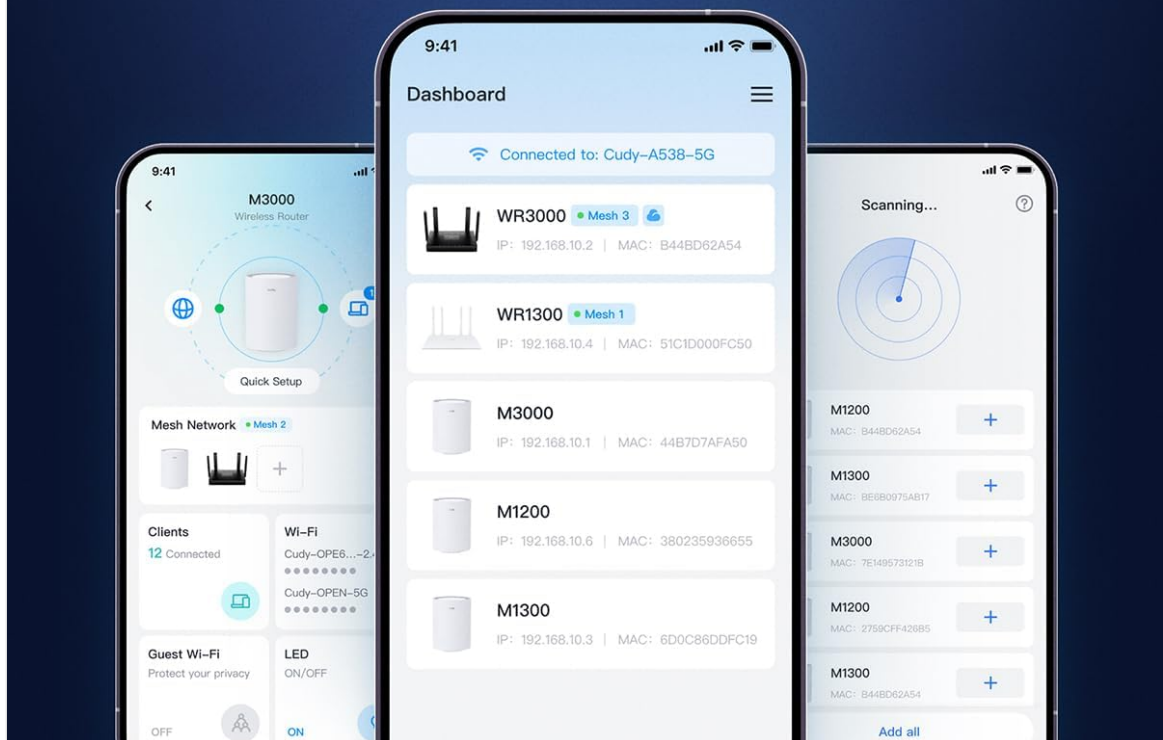
- Open a web browser and enter <http://cudy.net> or 192.168.10.1 in the address bar.
- Follow the on-screen instructions to complete the initial setup, including setting a new administrator password and customizing your Wi-Fi network name and password.

### **6. Cudy Cloud App Setup:**



# Cudy App

## Your Home Network In Your Hand



**Image 4.1:** The Cudy App interface, demonstrating how to manage your home network from a mobile device, with links to download the app from the App Store and Google Play.

For convenient management, download the Cudy Cloud App from the App Store (for iOS) or Google Play (for Android). Follow the in-app instructions to register an account and add your router.

## 5. OPERATING INSTRUCTIONS

### 5.1. Connecting Devices

You can connect devices to your Cudy WR3000E router via Wi-Fi or Ethernet cable.

- **Wi-Fi Connection:** On your device, select your Wi-Fi network name (SSID) and enter the password.
- **Wired Connection:** Use an Ethernet cable to connect your device to one of the router's LAN ports.

## 5.2. Network Management via Web Interface

Access the web management interface by opening a browser and navigating to <http://cudy.net> or [192.168.10.1](http://192.168.10.1). Log in with your administrator password.

- **Wireless Settings:** Change Wi-Fi names (SSIDs), passwords, and security protocols.
- **Guest Network:** Create a separate Wi-Fi network for guests to isolate them from your main network.
- **QoS (Quality of Service):** Prioritize network traffic for specific applications or devices (e.g., gaming, streaming).
- **Firmware Upgrade:** Update the router's firmware for improved performance and security.

## 5.3. VPN Configuration

The Cudy WR3000E supports multiple VPN protocols for secure remote access and private browsing.



# Share VPN with All or Host Your VPN Server



**Image 5.1:** Visual representation of the multiple VPN protocols supported by the Cudy WR3000E, including OpenVPN, WireGuard, PPTP, L2TP, Zerotier, and IPSec, enabling secure network sharing or hosting a VPN server.

To configure VPN settings, navigate to the VPN section in the web management interface. You can set up the router as a VPN client to connect to an existing VPN server or as a VPN server to allow remote access to your home network.

## 5.4. Parental Controls

Manage internet access for specific devices or users on your network.

# Protect Loved Ones with Parental Controls



URL Blacklist



Time Schedule



Client Management



Profiles



**Image 5.2:** An illustration of the parental control features available on the Cudy WR3000E, including URL blacklisting, time scheduling, client management, and user profiles.

- **URL Blacklist:** Block access to specific websites.
- **Time Schedule:** Set internet access schedules for devices.
- **Client Management:** View and manage connected devices.
- **Profiles:** Create profiles for different family members with customized access rules.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your router.

- **Rebooting:** Periodically reboot your router (e.g., once a month) to clear its memory and refresh

network connections. You can do this by unplugging the power adapter for 10 seconds and then plugging it back in.

- **Firmware Updates:** Check for and install firmware updates regularly via the web management interface. Updates often include performance improvements, security patches, and new features.
- **Physical Cleaning:** Keep the router in a well-ventilated area. Gently clean dust from the vents and exterior with a soft, dry cloth. Do not use liquid cleaners.
- **Secure Placement:** Place the router in a central location, away from obstructions and other electronic devices that may cause interference.

## 7. TROUBLESHOOTING

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If you encounter issues with your Cudy WR3000E router, refer to the following common problems and solutions:

- **No Internet Access:**
  - Check if your modem is working correctly.
  - Ensure all cables are securely connected (WAN port to modem, power adapter).
  - Reboot both your modem and router.
  - Verify your internet settings in the router's web management interface.
- **Slow Wi-Fi Speed:**
  - Ensure your devices support Wi-Fi 6 (802.11ax) for optimal performance.
  - Move closer to the router or reposition the router for better signal strength.
  - Check for interference from other electronic devices (e.g., microwaves, cordless phones).
  - Update your router's firmware.
  - Use the Cudy App or web interface to check for connected devices and potential bandwidth hogs.



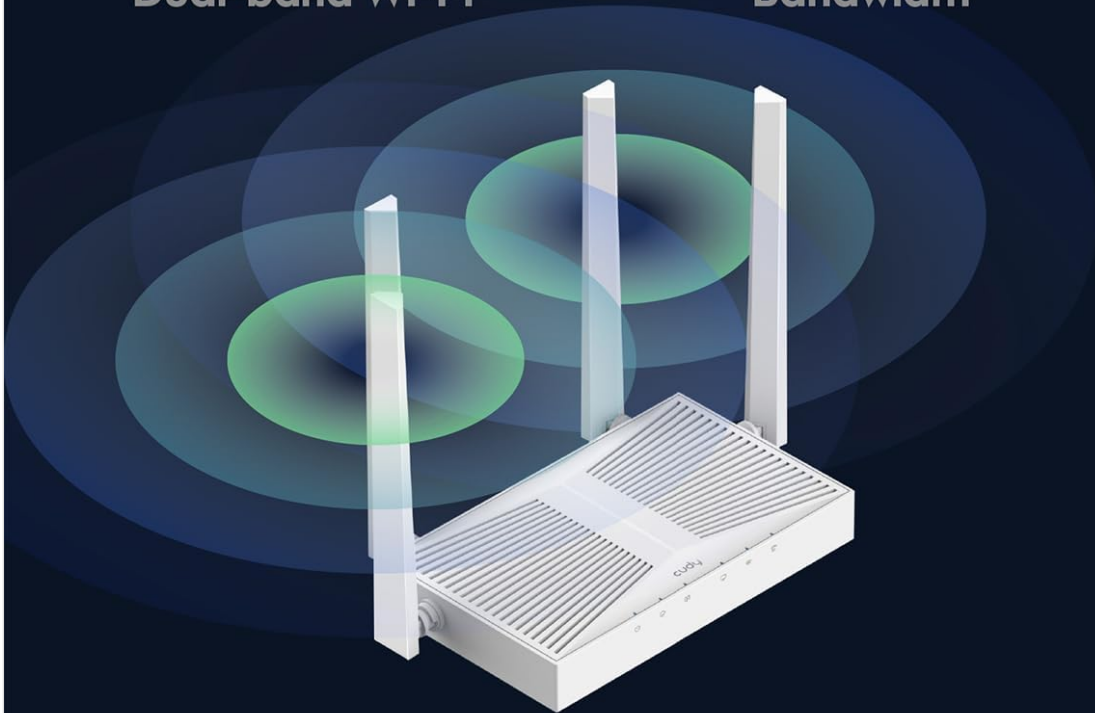
# Faster Wi-Fi 6 Eliminates Throttling

**AX3000**

Dual-band Wi-Fi

**160MHz**

Bandwidth



2402 Mbps **5GHz** | 574 Mbps **2.4GHz**

**Image 7.1:** An illustration demonstrating the high-speed capabilities of Wi-Fi 6 on the Cudy WR3000E, with dual-band performance of 2402 Mbps on 5GHz and 574 Mbps on 2.4GHz, designed to eliminate throttling.

- **Cannot Access Web Management Interface:**

- Ensure your device is connected to the router's Wi-Fi or a LAN port.
- Try clearing your browser's cache or using a different browser.
- Verify you are using the correct address: <http://cudy.net> or 192.168.10.1.
- If you forgot your password, perform a factory reset (see Section 3.2).

## 8. SPECIFICATIONS

Detailed technical specifications for the Cudy WR3000E AX3000 Wi-Fi 6 Mesh Router:

Feature	Specification
Model Name	WR3000E
Wireless Standard	802.11ax (Wi-Fi 6)
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Max Wireless Speed	AX3000 (up to 3000 Mbps combined)
CPU	1.3 GHz Dual Core Cortex-A53 (MediaTek Filogic 820)
Memory	128 MB ROM, 256 MB RAM
Ethernet Ports	1x WAN, 4x LAN (Gigabit)
Antennas	External 5 dBi Antennas
Special Features	QoS, MU-MIMO, OFDMA, Smart Beamforming, Cudy Mesh, Cudy Cloud App, Multi-VPN (PPTP/L2TP/WireGuard/OpenVPN/IPSec/Zerotier)
Product Dimensions	7.22 x 4.29 x 1.5 inches
Item Weight	1.63 pounds
Compatible Devices	Smartphone, Laptop, Tablet, Gaming Console

# 1.3 GHz Dual Core Cortex-A53

Powerful CPU  
Transmits Data in No Time



**Image 8.1:** A detailed view of the MediaTek Filogic 820 processor, highlighting its 1.3 GHz Dual Core Cortex-A53 CPU, 128 MB ROM, and 256 MB RAM, which power the Cudy WR3000E router.

## 9. WARRANTY AND SUPPORT

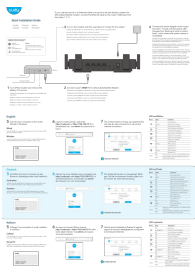


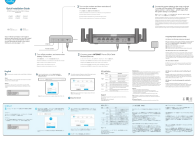


For warranty information and technical support, please refer to the official Cudy website or contact Cudy customer service. Details are typically provided in the Quick Installation Guide included with your product or available online.

You can also visit the Cudy support page for FAQs, firmware downloads, and further assistance.

**Cudy Official Website:** [www.cudy.com](http://www.cudy.com)



## Related Documents - WR3000E

	<p><a href="#">Cudy WR3000 AX3000 Dual Band Wi-Fi Router Quick Installation Guide</a></p> <p>A quick installation guide for the Cudy WR3000 AX3000 Dual Band Wi-Fi 6 Router, providing step-by-step instructions in multiple languages for setting up the device.</p>
	<p><a href="#">Cudy GP3000 AX3000 Wireless Dual-Band Gigabit xPON Router Datasheet</a></p> <p>Datasheet for the Cudy GP3000, an AX3000 Wireless Dual-Band Gigabit xPON Router supporting Wi-Fi 6, IPv6, and FTTH solutions with high-speed connectivity.</p>
	<p><a href="#">Cudy LT15E AX3000 Wi-Fi 6 Mesh 4G LTE Router Quick Installation Guide</a></p> <p>Step-by-step guide to install and configure your Cudy LT15E AX3000 Wi-Fi 6 Mesh 4G LTE Gigabit Router, including SIM card insertion, network connection, and initial setup.</p>
	<p><a href="#">Cudy AX1800 Gigabit Dual Band Wi-Fi 6 Router X6 Quick Installation Guide</a></p> <p>Step-by-step guide to install and set up your Cudy AX1800 Gigabit Dual Band Wi-Fi 6 Router (Model X6), including connection instructions, LED indicators, and frequently asked questions.</p>
	<p><a href="#">Cudy AX1500 Dual Band Wi-Fi 6 Router Quick Installation Guide</a></p> <p>This guide provides step-by-step instructions for setting up your Cudy AX1500 Dual Band Wi-Fi 6 router, covering physical connections, Wi-Fi and wired device setup, and the quick configuration wizard.</p>
	<p><a href="#">Cudy Mesh Wi-Fi System Quick Installation Guide</a></p> <p>Step-by-step guide to setting up and expanding your Cudy Mesh Wi-Fi network, including initial configuration and adding satellite units.</p>