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› [Cudy P2 AX3000 Wi-Fi 6 5G Cellular Router User Manual](#)

**Cudy P2**

# Cudy P2 AX3000 Wi-Fi 6 5G Cellular Router User Manual

Model: P2

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your Cudy P2 AX3000 Wi-Fi 6 5G Cellular Router. The Cudy P2 is designed to deliver high-speed internet connectivity using both 5G cellular networks and advanced Wi-Fi 6 technology, ensuring a robust and reliable network experience for your home or office.



Image 1.1: The Cudy P2 AX3000 Wi-Fi 6 5G Cellular Router, a white cylindrical device with status indicator lights on the front.

The Cudy P2 features a SIM card slot for 5G/4G cellular internet access, dual-band AX3000 Wi-Fi 6 for high-capacity wireless connections, and multiple Gigabit Ethernet ports for wired devices. It also supports Cudy Mesh technology for extended Wi-Fi coverage and various VPN protocols for secure remote access.

## 2. SETUP

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### 2.1 Package Contents

Verify that all items are present in your product package:

- Cudy P2 AX3000 Wi-Fi 6 5G Cellular Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide

### 2.2 Hardware Overview

Familiarize yourself with the ports and indicators on your Cudy P2 router.

# Extensive Connectivity

Connect and share with ease



Image 2.1: Rear view of the Cudy P2 router showing two SMA connectors for external antennas, a WPS button, two Gigabit Ethernet ports (one WAN/LAN, one LAN), and a Nano SIM card slot.

- **Power Port:** Connects to the included power adapter.
- **WAN/LAN Port:** Functions as either a WAN port for wired internet or a LAN port for connecting wired devices.
- **LAN Port:** Connects to wired devices such as computers or switches.
- **Nano SIM Card Slot:** Insert your Nano SIM card here for 5G/4G cellular internet access.
- **WPS Button:** Used for quick, secure connection to Wi-Fi devices.
- **SMA Connectors:** Two connectors for optional external 5G/4G antennas (not included).
- **Reset Button:** Press and hold for 5-10 seconds to restore factory default settings.

## 2.3 SIM Card Installation

1. Ensure the router is powered off.
2. Locate the Nano SIM card slot on the bottom of the router.
3. Insert your Nano SIM card into the slot with the metal contacts facing down and the notched corner aligned correctly. Push until it clicks into place.
4. To remove, gently push the SIM card inward until it springs out.

## 2.4 Initial Power-Up and Connection

1. Connect the power adapter to the router's power port and plug it into a power outlet.
2. Wait for the router to power on. The LED indicators on the front panel will illuminate.
3. Observe the 5G/4G signal strength indicator. A solid light indicates a stable cellular connection.
4. Connect to the router's Wi-Fi network using the default SSID and password printed on the label at the bottom of the device. Alternatively, connect a computer to one of the LAN ports using an Ethernet cable.

## 2.5 App-Based Setup

For convenient setup and management, download the Cudy App from your mobile device's app store. The app provides a guided process for initial configuration, including setting up your Wi-Fi network and managing router settings.

# 3. OPERATING THE ROUTER

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## 3.1 Network Configuration

Access the router's web interface by opening a web browser and entering 192.168.10.1 (or the default IP address specified in the Quick Installation Guide) in the address bar. Log in with the default username and password (usually admin for both).

- **Wi-Fi Settings:** Navigate to the Wireless section to change your Wi-Fi network name (SSID) and password. The Cudy P2 supports dual-band Wi-Fi 6 (2.4 GHz and 5 GHz) for optimal performance.
- **Guest Network:** Create a separate Wi-Fi network for guests to enhance security.
- **LAN Settings:** Configure the router's IP address, subnet mask, and DHCP server settings.

# Super-Fast Wi-Fi 6

## Connect 50 Devices. Stream 4K Videos.



**AX3000**

**Wi-Fi 6**

2402 Mbps 5 GHz | 574 Mbps 2.4 GHz

Image 3.1: Illustration highlighting the Cudy P2's Wi-Fi 6 capabilities, including AX3000 speeds (2402 Mbps on 5 GHz, 574 Mbps on 2.4 GHz) and support for up to 50 connected devices.

### 3.2 5G/4G Cellular Connectivity

The Cudy P2 supports both 5G SA (Standalone) and NSA (Non-Standalone) modes, providing flexible and high-speed cellular internet access. The router automatically detects and connects to the available cellular network.

# Advanced 5G SA/NSA

## Seamless Dual Connectivity



5G

2.6 Gbps

4G CAT 18

1.2 Gbps DL

4G CAT 12

600 Mbps DL

5G  >>>>>>>>>>



4G  >>>>>>>>>>

Dual Connectivity



4x4 MIMO



Image 3.2: Diagram illustrating the Cudy P2's advanced 5G SA/NSA seamless dual connectivity, showing 5G download speeds up to 2.6 Gbps.

- **APN Settings:** In most cases, the router will automatically configure the Access Point Name (APN) for your SIM card. If not, you may need to manually enter the APN provided by your mobile carrier in the cellular settings.
- **External Antennas:** For improved 5G/4G signal reception, you can connect optional external antennas to the SMA connectors on the back of the router.

### 3.3 Cudy Mesh Network

The Cudy P2 supports Cudy Mesh technology, allowing you to create a seamless whole-home Wi-Fi network by adding other Cudy Mesh-compatible devices. This extends Wi-Fi coverage and eliminates dead zones.

- Refer to the Cudy App or web interface for instructions on adding new mesh nodes and managing your mesh network.

### 3.4 Advanced Features

## Customizable Utilities

### VPN Server and Client



### WAN/WISP/5G Backup



Image 3.3: Visual representation of the Cudy P2's customizable utilities, including VPN Server and Client (OpenVPN, WireGuard, L2TP, PPTP, IPsec) and WAN/WISP/5G Backup options.

- **VPN Server and Client:** The router includes built-in support for various VPN protocols (PPTP, L2TP, OpenVPN, WireGuard, IPsec, Zerotier). This allows you to create secure connections for remote access to your home network or to connect to a VPN service.
- **WAN/WISP/5G Backup:** Configure the router to use different internet sources as a backup. For example,

if your wired WAN connection fails, the router can automatically switch to the 5G cellular connection.

- **Quality of Service (QoS):** Prioritize network traffic for specific applications or devices to ensure optimal performance for critical tasks like online gaming or video conferencing.
- **Access Point Mode:** The router can be configured to function as a Wi-Fi access point, extending an existing wired network wirelessly.
- **Remote Access:** Manage your router settings remotely using the Cudy App or through the web interface with appropriate configuration.

## 4. MAINTENANCE

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### 4.1 Firmware Updates

Regularly check for and install firmware updates to ensure optimal performance, security, and access to new features. Firmware updates can typically be performed via the Cudy App or the router's web interface.

- Navigate to the System Tools or Firmware section in the router's interface.
- Follow the on-screen instructions to check for and apply updates. Do not power off the router during the update process.

### 4.2 Cleaning Instructions

To maintain proper airflow and prevent overheating, periodically clean the router's exterior and ventilation slots. Use a soft, dry cloth. Avoid using liquid cleaners or abrasive materials.

### 4.3 Resetting to Factory Defaults

If you encounter persistent issues or forget your login credentials, you can reset the router to its factory default settings. This will erase all custom configurations.

1. With the router powered on, locate the Reset button (often a small pinhole) on the device.
2. Use a paperclip or a similar pointed object to press and hold the Reset button for approximately 5-10 seconds until the LED indicators flash.
3. Release the button and wait for the router to restart. It will then be restored to its original factory settings.

## 5. TROUBLESHOOTING

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### 5.1 No Internet Connection

- **Check SIM Card:** Ensure the Nano SIM card is correctly inserted and active with your mobile carrier.
- **Signal Strength:** Verify the 5G/4G signal strength indicator on the router. If the signal is weak, try repositioning the router or consider using external antennas.
- **APN Settings:** Confirm that the APN settings are correct for your mobile carrier in the router's web interface.
- **Wired Connection:** If using a wired WAN connection, ensure the Ethernet cable is securely connected and your ISP service is active.
- **Reboot:** Power cycle the router by unplugging it for 30 seconds and then plugging it back in.

### 5.2 Slow Wi-Fi Speeds

- **Interference:** Move the router away from potential sources of interference such as microwaves, cordless phones, or other electronic devices.

- **Distance and Obstacles:** Reduce the distance between your devices and the router, and minimize physical obstacles like thick walls.
- **Channel Selection:** In the router's Wi-Fi settings, try changing the Wi-Fi channel to a less congested one.
- **Device Capacity:** While the Cudy P2 supports many devices, excessive simultaneous high-bandwidth activities can impact performance.

### 5.3 SIM Card Not Detected

- **Reinsert SIM:** Power off the router, remove the SIM card, and reinsert it carefully, ensuring proper alignment.
- **SIM Card Status:** Verify that the SIM card is active and functional by testing it in another compatible device.

## 6. SPECIFICATIONS

Feature	Description
Brand	Cudy
Model Name	P2
Color	White
Connectivity Technology	5G, Ethernet, Wi-Fi
Wireless Standard	802.11ax (Wi-Fi 6)
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Wi-Fi Speed	AX3000 (2402 Mbps on 5 GHz, 574 Mbps on 2.4 GHz)
5G Download Speed	Up to 2.6 Gbps
Ethernet Ports	3 Gigabit Ports (1 WAN/LAN, 2 LAN)
SIM Card Slot	1 Nano SIM Slot
Special Features	Remote Access, Access Point Mode, QoS, VPN Server/Client (PPTP/L2TP/OpenVPN/WireGuard/IPsec/Zerotier), Cudy Mesh
Compatible Devices	Surveillance Camera, Personal Computer, Smartphone, Tablet, Smart TV
Operating System	RouterOS

Included Components	Power Adapter, Ethernet Cable, Quick Installation Guide
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## 7. WARRANTY AND SUPPORT

### 7.1 Warranty Information

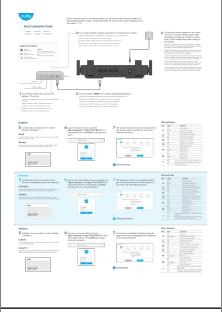
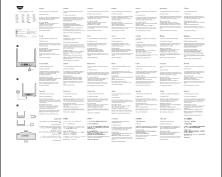
The Cudy P2 AX3000 Wi-Fi 6 5G Cellular Router comes with a **2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

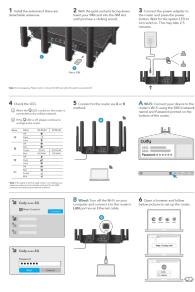
### 7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Cudy customer support. You can typically find support contact information on the official Cudy website or within the Cudy App.

- Visit the official Cudy website for FAQs, updated manuals, and support resources.
- Utilize the Cudy App for direct access to support features and diagnostics.

## Related Documents - P2

	<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 Networking Product Guide: Wi-Fi 7, Wi-Fi 6 Routers, Mesh Systems &amp; More</a></p> <p>Explore Cudy's comprehensive networking product guide featuring Wi-Fi 7 and Wi-Fi 6 routers, mesh systems, 4G/5G solutions, access points, switches, and peripherals for home and business. Discover advanced connectivity solutions from Shenzhen Cudy Technology Co., Ltd.</p>
	<p><a href="#">Cudy LT300 2.0 Quick Installation Guide</a></p> <p>Quick start guide for the Cudy LT300 2.0 cellular router. Learn how to insert your SIM card, power on the device, connect your devices via Wi-Fi or Ethernet, and complete the initial setup through the web interface. Includes LED status indicators and basic troubleshooting.</p>

	<p><a href="#"><u>Cudy 4G/5G Router Quick Installation Guide</u></a></p> <p>Comprehensive guide for setting up Cudy 4G/5G routers, covering antenna installation, SIM card insertion, power connection, LED status, network configuration via Wi-Fi or Ethernet, and SIM PIN entry. Includes EU Declaration of Conformity and support information.</p>
	<p><a href="#"><u>Cudy LT400 4G LTE Router Quick Installation Guide</u></a></p> <p>A quick installation guide for the Cudy LT400 4G LTE Router, covering setup, customization, and troubleshooting.</p>
	<p><a href="#"><u>Cudy LT15E AX3000 Wi-Fi 6 Mesh 4G LTE Router Quick Installation Guide</u></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>