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Cudy X6

Cudy AX1800Mbps WiFi 6 Mesh Router User Manual

Model: X6 | Brand: Cudy

Introduction

This manual provides detailed instructions for setting up, operating, and maintaining your Cudy AX1800Mbps WiFi 6 Mesh Router. Designed for high-performance home and office networking, the Cudy X6 offers advanced features including Wi-Fi 6 speeds, extensive coverage, and versatile operating modes.

What's in the Box

Upon unboxing your Cudy AX1800Mbps WiFi 6 Mesh Router, you should find the following components:

- 1 x AX1800 WiFi 6 Router
- 1 x Installation Guide
- 1 x Ethernet Cable
- 1 x Power Adapter



Image: The retail box of the Cudy AX1800 WiFi 6 Router, showing the router and its included accessories.

Product Overview



Image: Front view of the Cudy AX1800 WiFi 6 Router, showcasing its sleek black design and four external antennas.



Image: Rear view of the Cudy AX1800 WiFi 6 Router, highlighting the Gigabit Ethernet ports, WPS/Reset buttons, and power input.



Image: Diagram illustrating the internal hardware components, including the Dual Core CPU, 32MB ROM, and 256MB RAM, along with the Gigabit Ethernet Ports.

Setup

Initial Connection

1. Connect the power adapter to the router's DC port and plug it into a power outlet.
2. Connect one end of the provided Ethernet cable to your modem's LAN port and the other end to the router's blue "Internet" (WAN) port.
3. For initial setup, connect your computer to one of the router's yellow "LAN" ports using an Ethernet cable, or connect wirelessly using the default Wi-Fi name (SSID) and password found on the router's label.
4. Open a web browser and enter the default access address (e.g.,cudy.net or 192.168.10.1) to access the router's web management interface.
5. Follow the on-screen Quick Setup Wizard to configure your internet connection and Wi-Fi settings.

Operating Modes

The Cudy AX1800 router supports multiple operating modes to suit various network needs. To utilize these functions, ensure your firmware is updated to version 1.10.0 or later.

- **WiFi Router Mode:** Standard mode for sharing internet connection.
- **Access Point (AP) Mode:** Extends an existing wired network wirelessly.
- **Range Extender Mode:** Boosts the signal of an existing wireless network.
- **WISP Mode:** Connects to a wireless internet service provider and shares the connection.

Operating Your Router

Wi-Fi 6 Performance

The Cudy AX1800 leverages Wi-Fi 6 (802.11ax) technology to deliver enhanced speed, coverage, and capacity:

- **Speed:** Up to 1201Mbps on the 5GHz band and 574Mbps on the 2.4GHz band, offering a significant boost over Wi-Fi 5.
- **Coverage:** Equipped with an independent Front-End Module and four high-gain antennas, it effectively strengthens Wi-Fi signals and improves coverage. Beamforming technology precisely directs signals to connected devices.
- **Device Capacity:** OFDMA technology allows the router to handle dozens of devices simultaneously, ensuring smooth streaming and gaming even with many connected devices.



Image: A diagram illustrating the extensive Wi-Fi coverage provided by the Cudy X6 router within a home environment, reaching up to 2600 sq.ft.



Image: A visual representation showing the Cudy X6 router connecting to over 60 diverse devices, including mobile phones, laptops, gaming consoles, smart TVs, IP cameras, smart bulbs, smart speakers, and robotic vacuums.

VPN and Security Features

The Cudy AX1800 router supports multiple VPN security protocols and WPA3 for enhanced network security.

- **VPN Clients:** Supports L2TP VPN, PPTP VPN, OpenVPN, and WireGuard for secure remote access and data privacy.
- **DNS Encryption:** Compatible with Cloudflare and NextDNS for secure DNS resolution.
- **WPA3 Security:** Provides the latest Wi-Fi security standard for robust protection of your wireless network.

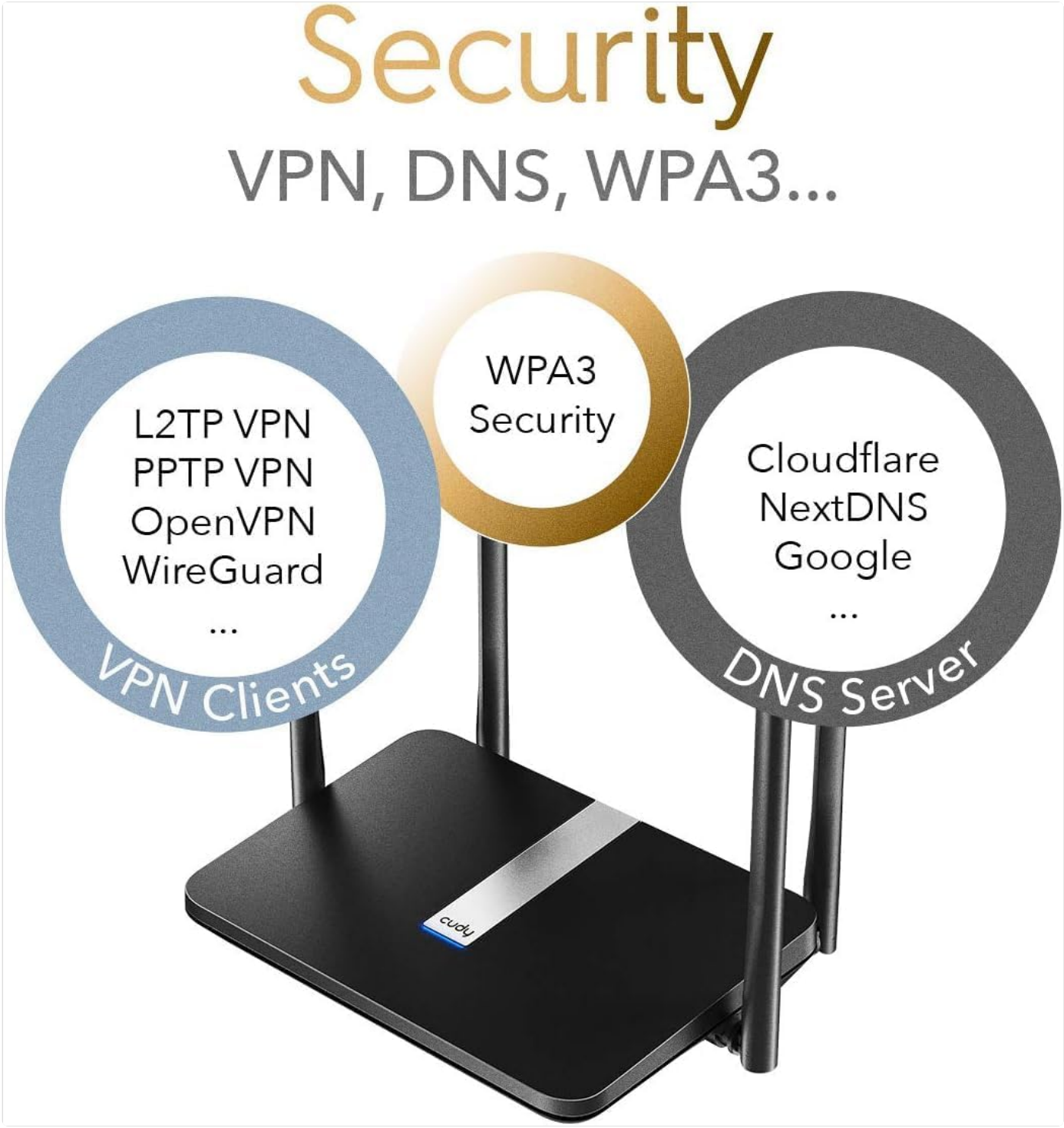


Image: A diagram highlighting the security features of the Cudy X6 router, including VPN client support (L2TP, PPTP, OpenVPN, WireGuard), WPA3 security, and DNS server options (Cloudflare, NextDNS, Google).

Mesh Wi-Fi System

The Cudy AX1800 can be integrated into a Mesh Wi-Fi system for seamless whole-home coverage. This feature requires firmware version 1.9.0 or later.

1. Upgrade the firmware of all mesh units to version 1.9.0 or later.
2. Reset any add-on mesh units to their factory default settings.
3. Press the WPS button on both the main mesh unit and the add-on mesh unit to pair them.



Image: Diagram illustrating the setup process for a Cudy Mesh Wi-Fi System, showing how multiple routers can be connected to extend coverage throughout a home. The steps include upgrading firmware, resetting add-on units, and pressing the WPS button for pairing.

Maintenance

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 through the router's web management interface.

Optimal Placement

For the best Wi-Fi performance and coverage, consider the following placement guidelines:

- Place the router at the center of your home or office.
- Avoid placing the router where there are more than two wooden or brick walls, or one concrete wall, between it and your devices.
- Elevate the router slightly (e.g., on small blocks or a wire basket) to allow for better airflow and prevent overheating,

as air vents are often located on the bottom.

Troubleshooting

If you encounter issues with your Cudy AX1800 router, try the following basic troubleshooting steps:

- **No Internet Connection:** Check all cable connections (power, Ethernet to modem, Ethernet to devices). Restart your modem and router.
- **Weak Wi-Fi Signal:** Adjust antenna positions. Relocate the router to a more central position. Ensure there are no major obstructions.
- **Slow Speeds:** Disconnect unused devices. Check for firmware updates. Ensure your internet service provider (ISP) is delivering the expected speeds.
- **Cannot Access Router Interface:** Verify you are using the correct IP address or domain (cudy.net). Ensure your device is connected to the router's network.
- **Resetting the Router:** If issues persist, you may perform a factory reset by pressing and holding the "Reset" button on the back of the router for approximately 5-10 seconds until the lights flash. Note that this will erase all custom settings.

Specifications

Feature	Detail
Model Number	X6
Wireless Standard	802.11ax (Wi-Fi 6), backward compatible with 802.11ac/a/b/g/n
Wi-Fi Speed	AX1800 (1201Mbps on 5GHz, 574Mbps on 2.4GHz)
Frequency Band	Dual-Band (2.4GHz & 5GHz)
Ethernet Ports	5 Gigabit Ports (4 LAN, 1 WAN)
Antennas	4 High-Gain Antennas
Dimensions	19.69 x 19.69 x 11.02 inches
Item Weight	10.5 ounces
Special Features	Access Point Mode, WPS, VPN Client (L2TP, PPTP, OpenVPN, WireGuard), DNS Encryption (Cloudflare, NextDNS)

Warranty Information

Please refer to the manufacturer's official website or product packaging for detailed warranty information regarding your Cudy AX1800Mbps WiFi 6 Mesh Router.

Support

For further assistance, technical support, or to download the latest firmware and documentation, please visit the official Cudy support website or refer to the provided installation manual.

You can also find the official Installation Manual (PDF)here.

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