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Cudy M1500

Cudy AX1500 WiFi 6 Mesh System M1500 User Manual

Model: M1500 2-Pack

1. INTRODUCTION

The Cudy AX1500 WiFi 6 Mesh Wi-Fi System (M1500) is designed to provide seamless, high-speed wireless internet coverage throughout your home or office. This system utilizes Wi-Fi 6 technology to deliver fast and reliable connections, effectively eliminating Wi-Fi dead zones. The M1500 system replaces traditional routers and extenders, creating a unified network under a single name for optimal performance and convenience.

AX1500 Whole-Home Mesh Wi-Fi 6 System

M1500



Figure 1: Cudy AX1500 WiFi 6 Mesh System M1500 Units

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- Cudy M1500 Mesh Wi-Fi Units (2-Pack)
- Power Adapters (one for each unit)
- Ethernet Cable
- Quick Installation Guide

If any item is missing or damaged, please contact Cudy support.

3. SETUP INSTRUCTIONS

Follow these steps to set up your Cudy AX1500 Mesh Wi-Fi System:

3.1 Initial Unit Placement

Place the first M1500 unit (main unit) near your modem or internet service provider's connection point. For optimal coverage, Cudy recommends placing the main unit at a central location in your home, minimizing obstructions like thick walls between units.

3.2 Connect the Main Unit

1. **Power Off:** Disconnect power from your modem.
2. **Connect Ethernet:** Use the provided Ethernet cable to connect one of the Gigabit ports on the M1500 unit to your modem's LAN port. Any of the three Gigabit ports on the M1500 can function as a WAN port during initial setup.
3. **Power On Modem:** Reconnect power to your modem and wait for it to fully boot up.
4. **Power On M1500:** Connect the power adapter to the M1500 unit and plug it into a power outlet. The LED indicator on the unit will light up.

Wired Power Meets Whole-Home Performance



Figure 2: M1500 Unit Ports (LAN/WAN, Power)

3.3 Configure via Cudy App

The Cudy App provides a guided setup process:

1. **Download App:** Download the Cudy App from your mobile device's app store (iOS or Android).
2. **Connect to Wi-Fi:** Connect your mobile device to the default Wi-Fi network broadcast by the main M1500 unit. The default Wi-Fi name (SSID) and password are typically found on a label on the bottom of the unit.
3. **Launch App:** Open the Cudy App and follow the on-screen instructions to configure your mesh network, including setting a new Wi-Fi name and password.

3.4 Add Satellite Units

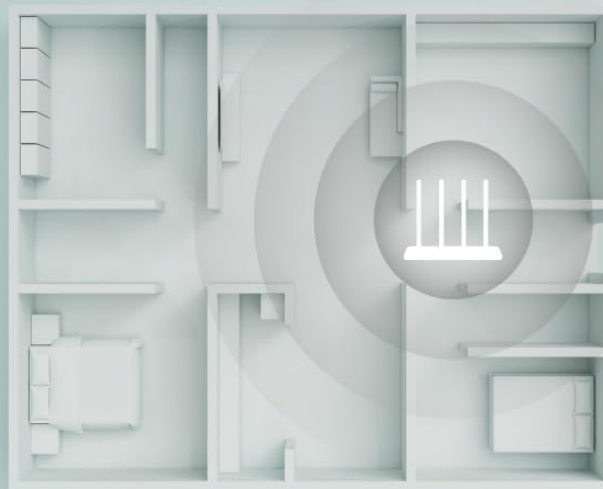
After setting up the main unit, you can add the second M1500 unit to expand your Wi-Fi coverage:

1. **Placement:** Place the satellite unit in an area that requires extended Wi-Fi coverage, ensuring it is within range of the main unit or another satellite unit. Avoid placing it behind large metal objects or in enclosed spaces.
2. **Power On:** Connect the power adapter to the satellite M1500 unit and plug it into a power outlet. Wait for the LED indicator to stabilize.
3. **Pairing:** The units should automatically connect and form a mesh network. If automatic pairing does not occur, use the Cudy App to add the new unit, or press the "Pair (WPS)" button on both the main unit and the satellite unit within two minutes.

Seamless Wi-Fi Coverage, Room to Room



Cudy Mesh Wi-Fi System



Traditional Router

Figure 3: Seamless Wi-Fi Coverage with Cudy Mesh System

4. OPERATING INSTRUCTIONS

Once your Cudy M1500 Mesh Wi-Fi System is set up, it provides a unified and high-performance wireless network.

4.1 Wi-Fi Connectivity

- **Single Network Name:** All M1500 units operate under a single Wi-Fi network name (SSID), allowing your devices to seamlessly roam and connect to the strongest signal as you move around your home.
- **Dual-Band AX1500:** The system supports Wi-Fi 6 (802.11ax) with dual-band capabilities, offering speeds up to 1201

Mbps on the 5 GHz band and 300 Mbps on the 2.4 GHz band.

- **Device Capacity:** Designed to connect over 90 devices simultaneously, ensuring stable performance for all your smart home devices, streaming, and gaming needs.



Figure 4: AX1500 Wi-Fi 6 Speed Capabilities

4.2 Wired Connections

Each M1500 unit is equipped with three Gigabit Ethernet ports. These ports can be used for:

- **Ethernet Backhaul:** Connect mesh units to each other via Ethernet for a more stable and faster backhaul connection, improving overall network performance.

- **Wired Devices:** Connect devices such as smart TVs, gaming consoles, or desktop computers directly to any M1500 unit for a stable wired connection.

4.3 Cudy App Control

The Cudy App allows for comprehensive management of your mesh network:

- **Network Monitoring:** View connected devices, network status, and internet speed.
- **Parental Controls:** Manage internet access for specific devices, set time limits, and block websites.
- **Guest Network:** Create a separate Wi-Fi network for guests to enhance security.
- **Firmware Updates:** Easily update your M1500 units to the latest firmware for improved performance and security.

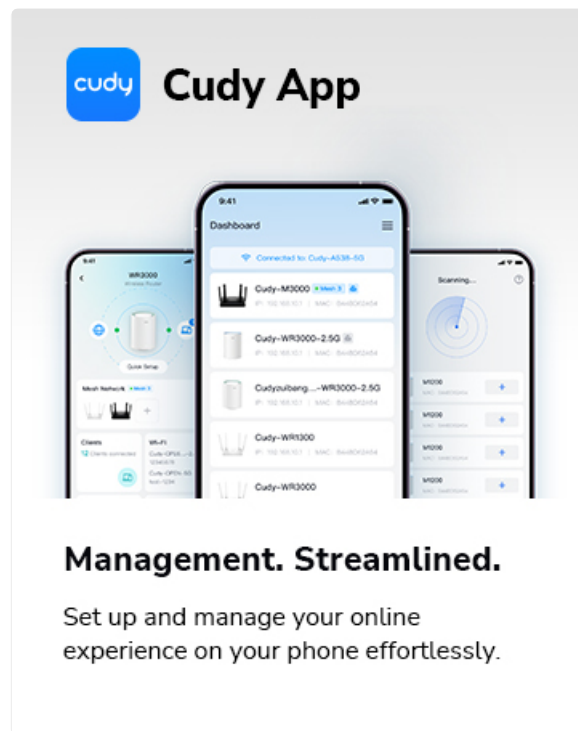


Figure 5: Cudy App Interface for Network Management

4.4 VPN Client Support

The M1500 supports multiple VPN client protocols, including PPTP, L2TP, and WireGuard. This feature allows for secure remote access and encrypted data transmission across your network.

VPN Client for Secure Remote Access



 WIREGUARD

 PPTP VPN

 L2TP

Figure 6: VPN Client for Secure Remote Access

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Cudy M1500 Mesh Wi-Fi System:

- **Firmware Updates:** Periodically check for and install firmware updates via the Cudy App or web interface. Updates often include performance improvements, security patches, and new features.
- **Optimal Placement:** Ensure units are placed in central locations, away from large metal objects, thick walls (more than two wooden/brick or one concrete wall), and interference sources like microwaves or cordless phones.

- **Periodic Reboot:** Rebooting your mesh units every few weeks can help clear temporary issues and maintain network stability. Simply unplug the power adapter for 10 seconds and then plug it back in.
- **Cleaning:** Keep the units clean and free from dust accumulation, especially around ventilation areas, to prevent overheating. Use a soft, dry cloth.

6. TROUBLESHOOTING

If you encounter issues with your Cudy M1500 Mesh Wi-Fi System, refer to the following common solutions:

6.1 No Internet Connection

- **Check Modem:** Ensure your modem is powered on and has an active internet connection.
- **Cable Connections:** Verify that the Ethernet cable connecting the main M1500 unit to your modem is securely plugged in.
- **Reboot System:** Power cycle both your modem and the main M1500 unit. Wait for each device to fully boot before checking the connection.
- **ISP Status:** Contact your Internet Service Provider (ISP) to confirm there are no service outages in your area.

6.2 Weak or Intermittent Wi-Fi Signal

- **Unit Placement:** Adjust the placement of your satellite M1500 units to ensure they are within optimal range of each other and the main unit. Avoid excessive physical obstructions.
- **Interference:** Move units away from potential sources of interference such as microwaves, cordless phones, or large electronic appliances.
- **Firmware:** Ensure all M1500 units are running the latest firmware version.

6.3 Difficulty Adding Satellite Unit

Some users may experience difficulty pairing additional units. If a satellite unit does not connect automatically:

- **Proximity:** Temporarily move the satellite unit closer to the main unit during the pairing process.
- **Pair Button:** Press the "Pair (WPS)" button on both the main unit and the satellite unit within two minutes.
- **Factory Reset:** If pairing repeatedly fails, perform a factory reset on the satellite unit. This typically involves pressing and holding a reset button (often recessed) for several seconds until the LED behavior changes. Refer to the Quick Installation Guide for specific reset instructions. After resetting, attempt the pairing process again.
- **Cudy App:** Utilize the Cudy App's guided process for adding new mesh units, which can often simplify the procedure.

6.4 Device Cannot Connect to Wi-Fi

- **Correct Password:** Verify you are entering the correct Wi-Fi password.
- **Network Visibility:** Ensure the Wi-Fi network (SSID) is visible. If you have hidden the SSID, manually connect your device.
- **Device Compatibility:** Confirm your device supports Wi-Fi 6 (802.11ax) or earlier standards (802.11ac/n/g/b/a).
- **Reboot Device:** Reboot the device attempting to connect.

7. SPECIFICATIONS

Brand	Cudy
Model Name	M1500 2-Pack
Wi-Fi Generation	Wi-Fi 6 (802.11ax)
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Data Transfer Rate	Up to 1500 Mbps (1201 Mbps on 5 GHz, 300 Mbps on 2.4 GHz)
Coverage	Up to 1800 sq.ft. (for 2-Pack)
Number of Gigabit Ports	3 per unit
Security Protocol	WPA3
RAM Memory Installed	128 MB
Control Method	Cudy App, Web Interface
Special Features	Access Point Mode, LED Indicator, Parental Control, QoS, Remote Access, Multi-VPN Support (PPTP/L2TP/WireGuard)
Dimensions (L x W x H)	4.33"L x 4.33"W x 6.08"H
Item Weight	400 Grams

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The Cudy AX1500 WiFi 6 Mesh System M1500 comes with a **2-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. For warranty claims, please retain your proof of purchase.

8.2 Technical Support

For technical assistance, troubleshooting, or further inquiries, please visit the official Cudy website or contact their customer support. You can often find FAQs, updated manuals, and support contact information on their website.

Cudy Website: www.cudy.com