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Cudy LT500

Cudy AC1200 Dual Band Unlocked 4G LTE Modem Router

Model: LT500 | Brand: Cudy

Introduction

This manual provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your Cudy AC1200 Dual Band Unlocked 4G LTE Modem Router (Model LT500). This device is designed to provide reliable internet connectivity using a SIM card, offering both 2.4GHz and 5GHz Wi-Fi bands for a superior user experience.

Key Features

- **4G LTE Connectivity:** Works with major 4G providers in North America, offering download speeds up to 150Mbps by simply inserting a SIM card.
- **Dual-Band Wi-Fi:** Provides both 2.4GHz and 5GHz Wi-Fi bands for optimal performance, with ultra-fast 867Mbps 5GHz Wi-Fi speed.
- **High Gain Antennas:** Equipped with four 5dBi high-gain antennas to boost router sensitivity and improve 4G LTE and Wi-Fi signal quality.
- **VPN Client Support:** Features built-in PPTP/L2TP/OpenVPN/WireGuard VPN Clients for secure data transmission.
- **Easy Setup:** Simple SIM card insertion and web configuration for quick and stable wireless internet access.

Setup Guide

Initial Setup (Plug and Play)

1. **Insert SIM Card:** Locate the SIM card slot on the router and carefully insert your Nano SIM card. Ensure it is correctly oriented.
2. **Power the Device:** Connect the power adapter to the router and plug it into an electrical outlet. The router will power on automatically.
3. **Enjoy Internet:** Wait for the router to initialize. Once the indicator lights show a stable connection, you can connect your devices via Wi-Fi or Ethernet and begin using the internet.



Figure 1: Simple Plug and Play Setup

Advanced Configuration (Firmware Update & APN Settings)

For optimal performance and specific carrier configurations, it is highly recommended to update the firmware and configure APN settings as needed.

1. **Upgrade to the latest firmware:**
    - Download the latest firmware from the official Cudy website:cudy.com/lt500_software_download.

- Unzip the downloaded firmware file.
- Connect to the LT500's network via Wi-Fi or Ethernet.
- Open a web browser and log into the web management page of the LT500 (refer to the router's label for default IP address and credentials).
- Navigate to **Advanced Settings** > **Firmware**. Choose the unzipped firmware file to upload.
- Wait approximately 2 minutes for the router to restart after the update.

2. **Configure APN Settings (e.g., for Visible, T-Mobile):**

- After firmware update, log back into the web management page.
- For Visible: Go to **Advanced Settings** > **IPv6** to enable it. Then go to **Advanced Settings** > **TTL** > **Custom** and set TTL to 64, HL to 65. Finally, go to **General Settings** > **3G/4G**, set APN profile as **Manual**, set APN as **VSBLINTERNET**, leave username and password blank, and set Authentication as **PAP+CHAP**.
- For T-Mobile & T-Mobile B2B Static IP: Go to **General Settings** > **3G/4G**. Set Network mode as **4G only**, set APN profile as **Manual**, set APN as **fast.t-mobile.com** (for static IP plan, use **b2b.static**). Leave username and password blank. Set Authentication as **PAP+CHAP**.
- Save all settings and verify internet connectivity.



Figure 2: Router Ports and SIM Slot

Operating Instructions

Connecting Devices

The Cudy LT500 router supports up to 64 devices simultaneously, including mobile phones, laptops, tablets, smart TVs, gaming consoles, IP cameras, and smart home devices.

- **Wi-Fi Connection:** Search for the router's Wi-Fi network name (SSID) on your device and enter the Wi-Fi password (both typically found on a sticker on the router).
- **Ethernet Connection:** Use an Ethernet cable to connect your device (e.g., desktop computer, gaming console) to one of the LAN ports on the back of the router.



Figure 3: Connecting Multiple Devices

Using VPN Clients

The LT500 router includes built-in VPN clients (PPTP, L2TP, OpenVPN, WireGuard) to enhance your online security and privacy. Refer to the router's web management interface for detailed configuration of VPN connections.

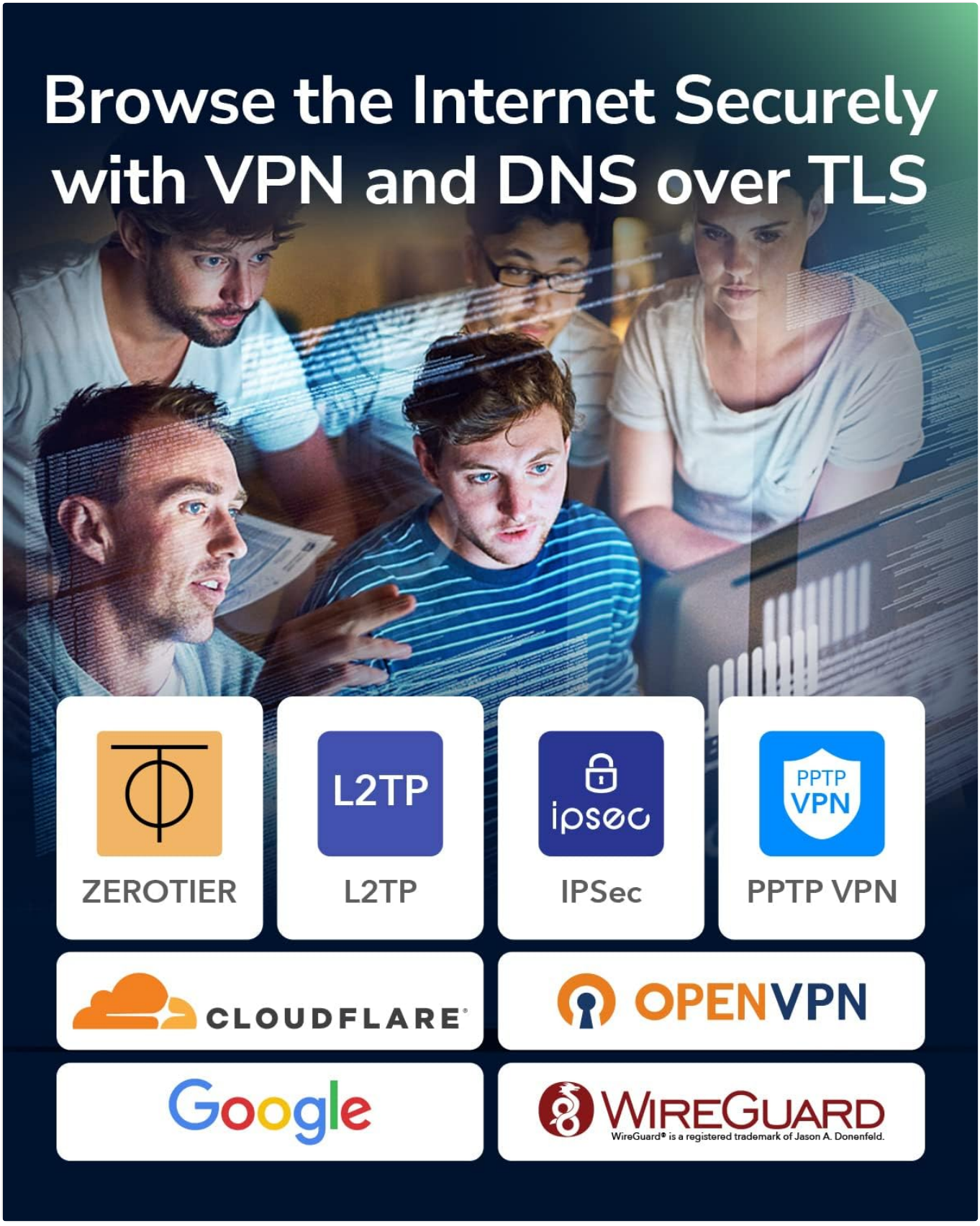


Figure 4: Supported VPN Protocols

Wi-Fi Performance

The router converts 4G LTE signals into dual-band Wi-Fi, providing fast and wide-ranging coverage. The 5GHz band offers speeds up to 867 Mbps, while the 2.4GHz band provides speeds up to 300 Mbps for broader coverage.



Figure 5: Dual-Band Wi-Fi Speeds

Maintenance

- **Firmware Updates:** Regularly check the Cudy website for the latest firmware updates to ensure optimal performance, security, and compatibility.
- **Physical Cleaning:** Keep the router clean and free from dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.

- **Ventilation:** Ensure the router is placed in a well-ventilated area to prevent overheating. Avoid covering ventilation openings.
- **Antenna Positioning:** Adjust the high-gain antennas for the best signal reception. Experiment with different orientations to find the optimal setup for your environment.

Troubleshooting

No Internet Connection

- **Check SIM Card:** Ensure the SIM card is correctly inserted and activated with your carrier.
- **Check Signal Strength:** Verify the 4G LTE signal strength indicators on the router. If the signal is weak, try repositioning the router or adjusting antennas.
- **APN Settings:** Confirm that the APN settings are correctly configured for your specific mobile carrier (refer to the "Advanced Configuration" section).
- **Reboot Router:** Power off the router, wait 10 seconds, and then power it back on.
- **Check System Log:** If issues persist, log into the web management page, go to **System status** > **System card** > **More details** > **System log** to download the log and send it to Cudy support for assistance.

Slow Wi-Fi Speed

- **Interference:** Move the router away from other electronic devices that might cause interference (e.g., microwaves, cordless phones).
- **Distance and Obstacles:** Reduce the distance between your device and the router. Walls and large objects can degrade Wi-Fi signal.
- **Band Selection:** For faster speeds, connect to the 5GHz Wi-Fi band if your device supports it and is close to the router. Use the 2.4GHz band for wider coverage.
- **Number of Devices:** Too many devices connected simultaneously can impact performance.

Specifications

Feature	Detail
Product Dimensions	9.84 x 5.48 x 1.42 inches
Item Weight	10.9 ounces
Model Number	LT500
Brand	Cudy
Special Feature	WPS
Frequency Band Class	Dual-Band
Wireless Communication Standard	802.11a/b/g/n/ac
Compatible Devices	Security Camera, Personal Computer, Tablet, Smart Television, Smartphone
Frequency	5 GHz

Recommended Uses	Home
Included Components	Power adapter, cable
Connectivity Technology	4G, 3G, Wi-Fi, Ethernet
Color	Black
Manufacturer	Shenzhen Cudy Technology Co., Ltd.
Country of Origin	China

Product Overview Video

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This video provides a visual overview of the Cudy 4G LTE Router, highlighting its features and benefits for home internet solutions, enhanced signal coverage, and secure browsing with VPN.

Warranty and Support

For detailed warranty information, please refer to the official Cudy website or the documentation included with your product. For technical support, firmware downloads, and frequently asked questions, visit the Cudy support page or contact their customer service.

- Official Cudy Store: Visit the Cudy Store on Amazon
- Installation Manual (PDF): Download Installation Manual

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