Cudy LT300 Outdoor

Cudy LT300 Outdoor 4G LTE Modem Router User Manual

Model: LT300 Outdoor

Brand: Cudy

1. Introduction

The Cudy LT300 Outdoor 4G LTE Modem Router is designed to provide reliable internet connectivity in outdoor environments. It converts a 4G LTE mobile signal into a Wi-Fi network, making it ideal for locations where traditional wired internet is unavailable. With its IP65-rated waterproof housing and versatile mounting options, it offers a robust solution for homes, cabins, farms, and RVs.



Figure 1: Cudy LT300 Outdoor 4G LTE Modem Router

2. Product Overview

2.1 Key Features

- **4G LTE Connectivity:** Supports major 4G providers with download speeds up to 150Mbps.

- **N300 Wi-Fi:** Provides reliable Wi-Fi coverage for connected devices.
- **IP65 Rated:** Waterproof housing suitable for outdoor use.
- **Flexible Power Options:** Supports 24V passive PoE or 12V DC power supply.
- **Versatile Mounting:** Designed for pole or wall mounting.
- **Advanced Features:** Includes DDNS, VPN support, and DNS Encryption (Cloudflare, NextDNS, Google).



Figure 2: Key features of the Cudy LT300 Outdoor Router, highlighting 4G LTE Cat.4, 300Mbps Wi-Fi, 24V Passive PoE, and IP65 Waterproof rating.

2.2 Package Contents

Verify that all items are present in your package:

- 1 x Cudy 4G LTE Router (LT300 Outdoor)
- 1 x 24V Passive PoE Power Adapter
- 2 x SIM Card Adapters
- 1 x Ethernet Cable
- 1 x Installation Guide

3. Setup

3.1 SIM Card Installation

1. Locate the SIM card slot on the router. It is typically protected by a cover.
2. Open the cover and insert your BYOD (Bring Your Own Device) SIM card into the designated slot. Ensure the SIM card is correctly oriented as indicated by the diagram near the slot. Use the provided SIM card adapters if your SIM card is a different size (e.g., Nano to Micro).
3. Close the cover securely to maintain the IP65 waterproof rating.

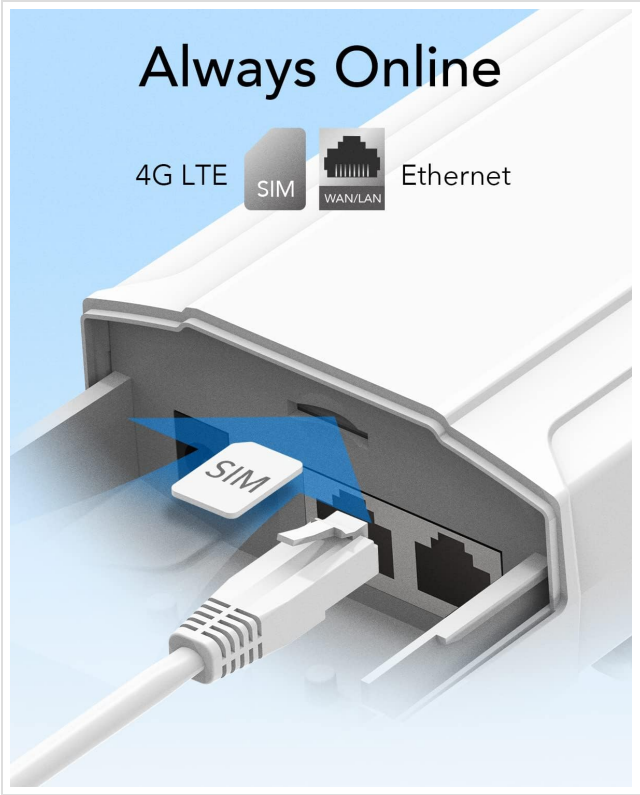


Figure 3: Illustration showing the insertion of a SIM card and connection of an Ethernet cable to the router's ports.

3.2 Power Options

The LT300 Outdoor router supports two power methods:

- **24V Passive PoE (Power over Ethernet):** Connect the provided 24V passive PoE power adapter to the router's PoE port using an Ethernet cable. This method allows both power and data to be transmitted over a single cable, simplifying outdoor installation.
- **12V DC Power Supply:** Alternatively, you can use a 12V DC power adapter (not included) connected to the router's DC input port.

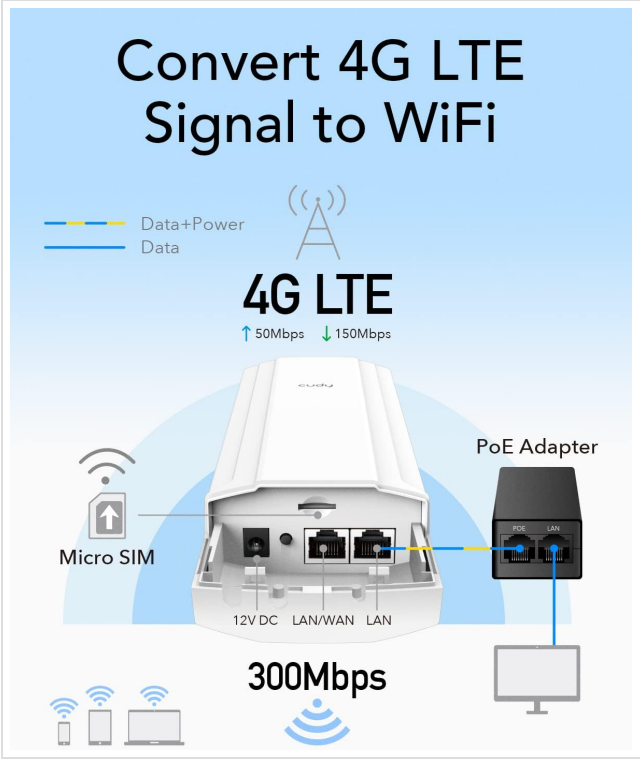


Figure 4: Diagram illustrating the conversion of 4G LTE signal to Wi-Fi, showing connections for Micro SIM, 12V DC power,

LAN/WAN, LAN ports, and the PoE Adapter setup.

3.3 Mounting the Router

The LT300 Outdoor router offers flexible mounting solutions:

- **Pole Mounting:** Use the included pole mounting accessories to attach the router to a pole. Ensure the pole is sturdy and provides a clear line of sight for optimal signal reception.
- **Wall Mounting:** The router can also be securely mounted to a wall using screws (not included). Mark the drilling points, drill holes, insert wall anchors if necessary, and then attach the router.

Choose a location that provides the best possible 4G LTE signal and Wi-Fi coverage for your intended area.



Figure 5: Visual representation of the versatile mounting solutions, including wall mounting with screws and pole mounting with accessories.

3.4 Initial Configuration

1. Connect your computer or mobile device to the router's Wi-Fi network (default SSID is usually 'Cudy_XXXX' or similar, found on the device label) or via an Ethernet cable to one of the LAN ports.
2. Open a web browser and enter the default IP address:**192.168.10.1**
3. Log in using the default username and password (refer to the device label or included installation guide for default credentials).
4. Follow the on-screen setup wizard to configure your internet connection (APN settings for your SIM card, if not automatically detected) and Wi-Fi network name (SSID) and password.

4. Operation

4.1 Network Connectivity

Once configured, the Cudy LT300 will establish a connection to the 4G LTE network via your inserted SIM card. It then broadcasts a Wi-Fi signal, allowing all your Wi-Fi enabled devices to connect to the internet. The router also provides Ethernet ports for wired connections.

4.2 Advanced Features

The router's web interface provides access to various advanced features:

- **DNS Encryption:** Enhance your privacy by configuring DNS encryption with services like Cloudflare, NextDNS, or Google.
- **VPN Support:** The router supports multiple VPN protocols, allowing you to create secure network connections.
- **4G Band Lock:** Manually select or lock specific 4G LTE bands to optimize signal strength and stability in your area.
- **DDNS:** Configure Dynamic DNS for remote access to your network resources.

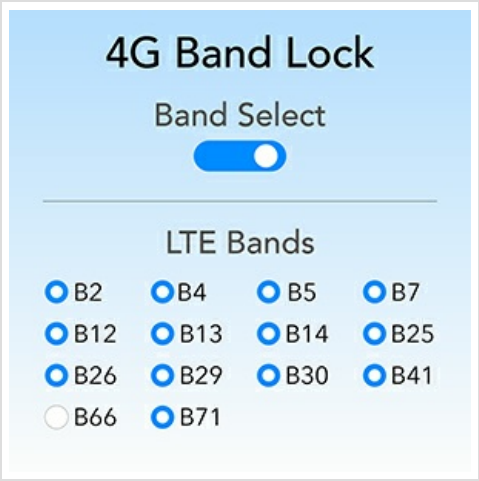


Figure 6: Screenshot of the 4G Band Lock feature within the router's web interface, allowing selection of specific LTE bands.

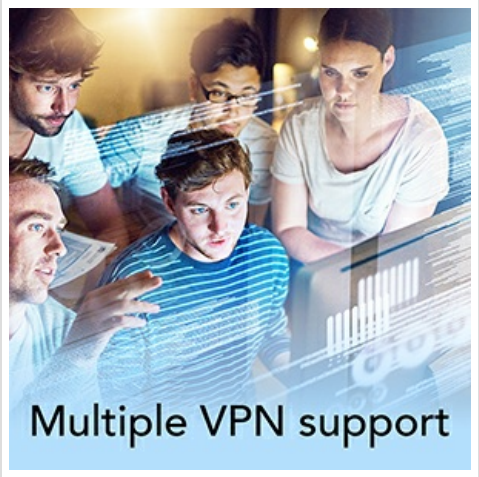


Figure 7: Image representing the router's support for multiple VPN configurations, enabling secure network connections.

5. Maintenance

To ensure optimal performance and longevity of your Cudy LT300 Outdoor router:

- **Regular Cleaning:** Periodically inspect the exterior of the router for dirt, dust, or debris. Gently wipe it clean with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Firmware Updates:** Check the Cudy official website for the latest firmware updates. Keeping your firmware up-to-date ensures you have the latest features, security patches, and performance improvements.
- **Environmental Considerations:** While IP65 rated, avoid exposing the router to extreme temperatures or direct, prolonged submersion in water. Ensure proper ventilation if installed in an enclosed space (though designed for outdoor exposure).

6. Troubleshooting

If you encounter issues with your Cudy LT300 Outdoor router, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No Internet Connection	SIM card not inserted correctly, incorrect APN settings, no 4G signal, data plan exhausted.	Reinsert SIM card, verify APN settings in web interface, check 4G signal strength, contact your mobile carrier.
Weak Wi-Fi Signal	Router placement, interference, obstacles.	Relocate router to a more central or elevated position, minimize obstacles, check for interfering devices.
Cannot Access Web Interface	Incorrect IP address, network configuration issues, router not powered on.	Ensure router is powered on, verify IP address (192.168.10.1), try a different browser or device, temporarily disable firewall/antivirus.
Router Not Powering On	Power adapter issue, cable not connected properly.	Check power connections, ensure PoE adapter is functioning, try a different power outlet.

If the problem persists after trying these steps, please refer to the detailed troubleshooting section in the full user manual available on the Cudy support website or contact Cudy customer support.

7. Specifications

Attribute	Value
Model Name	LT300 Outdoor
Product Dimensions	2.95 x 1.57 x 9.06 inches
Item Weight	1.41 pounds
Connectivity Technology	Wi-Fi, Ethernet, LTE
Wireless Communication Standard	802.11n
Frequency Band Class	Single-Band (2.4 GHz)
Special Feature	WPS
Compatible Devices	Personal Computer, Mobile Device, Smart Home IoT Device
Recommended Uses For Product	Gaming (as listed in source, but generally for internet access)
Manufacturer	Shenzhen Cudy Technology Co., Ltd.
IP Rating	IP65 (Waterproof)
Power Supply	24V Passive PoE or 12V DC

8. Warranty and Support

Cudy products typically come with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Cudy website. For technical support, troubleshooting assistance, or to inquire about repairs, please contact Cudy customer support through their official channels. Keep your purchase receipt and product serial number handy when contacting support.

Cudy Official Website: www.cudy.com

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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