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GL.iNet GL-X300B-RS485

GL-X300B (Collie) 4G LTE VPN Industrial Wireless Gateway User Manual

Your comprehensive guide to setting up, operating, and maintaining your GL.iNet GL-X300B (Collie) Industrial Wireless Gateway.

Introduction

The GL.iNet GL-X300B (Collie) is a compact and robust industrial 4G LTE wireless gateway designed for stable and reliable connectivity in demanding environments. Featuring external full-band 4G antennas, an aluminum alloy shell, and a hardware watchdog, it ensures continuous data transmission. The device also includes an RS485 interface, making it suitable for various IoT applications such as vending machines, charging stations, smart agriculture, and metering.

What's in the Box

Before you begin, please verify that all components listed below are included in your package:

- 1 x GL-X300B-RS485 Industrial Wireless Gateway (2-year Warranty)
- 1 x Ethernet cable
- 1 x User manual
- 1 x External 4G antenna
- 2 x External Wi-Fi antennas
- 1 x Terminal block (Green)
- 1 x Plastic wall plug and screw set for wall installation
- 1 x DIN rail clip and screw set for DIN rail installation
- 1 x Power adapter set (US, UK, EU, AU plugs)



Image: All components included in the GL-X300B-RS485 package, including the gateway, antennas, cables, mounting hardware, and power adapter.

Setup Guide

Device Overview

Familiarize yourself with the ports, indicators, and buttons on your GL-X300B-RS485 gateway.

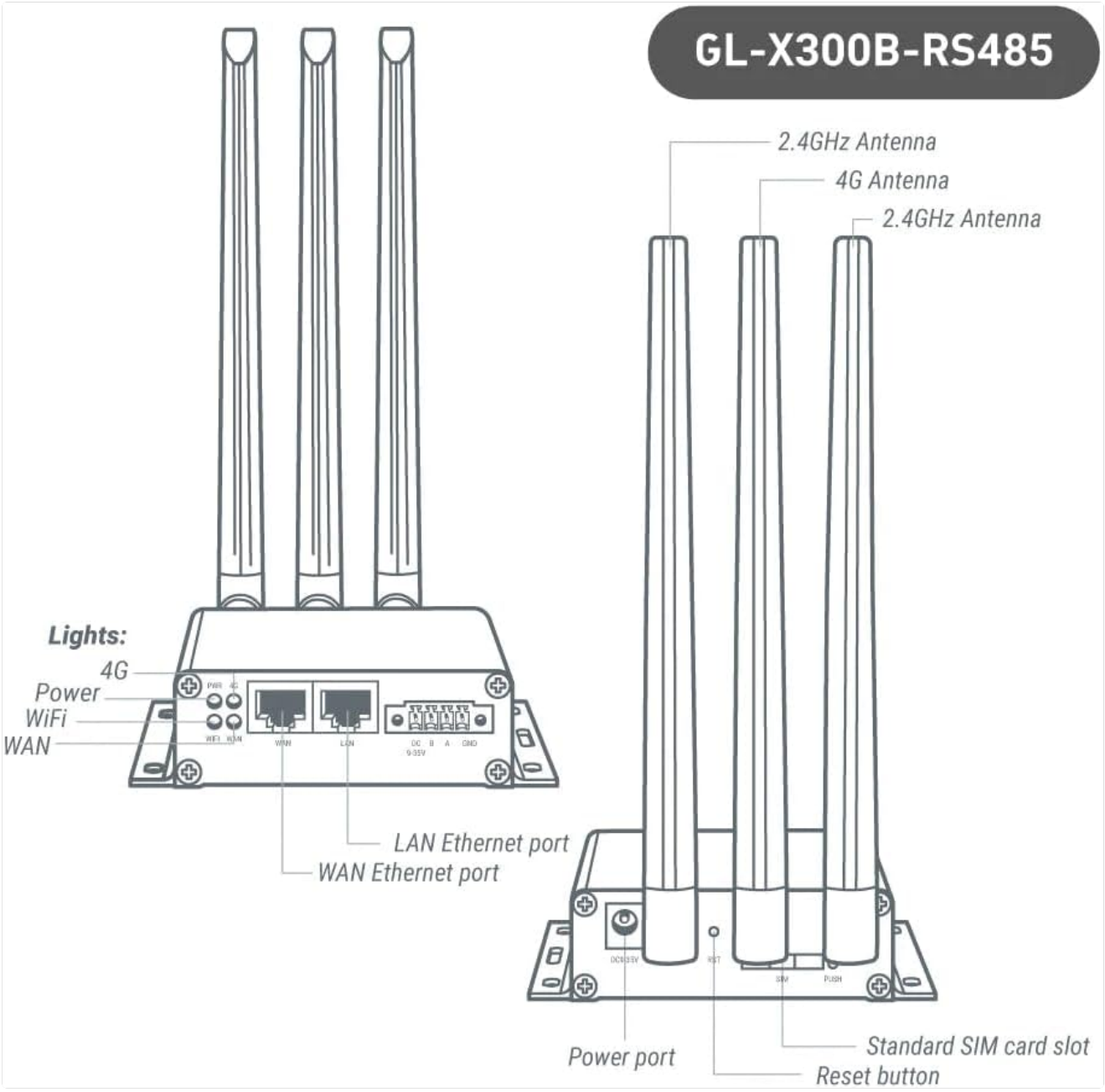


Image: Detailed diagram showing the front and bottom views of the GL-X300B-RS485, highlighting the PWR, 4G, WiFi, WAN, and LAN indicator lights, WAN and LAN Ethernet ports, DC 9-35V power input, GND terminal, RS485 A/B terminals, 2.4G and 4G antenna ports, Reset button, and standard SIM card slot.



Image: Top view of the GL-X300B-RS485 showing the Ethernet ports, power input, and terminal block, and bottom view showing the antenna connectors, reset button, and SIM card slot.

Step 1: Install Antennas

Carefully screw the provided external 4G antenna and two Wi-Fi antennas into their respective connectors on the back of the gateway. Ensure they are finger-tight to establish a secure connection.

Step 2: Insert SIM Card

Locate the standard SIM card slot on the bottom of the device. Insert your activated 4G LTE SIM card into the slot until it clicks into place. Ensure the SIM card is correctly oriented as indicated on the device.
Note: This device does not support Verizon Network in the US.

Step 3: Power On

Connect the power adapter to the DC 9-35V input port on the gateway and then plug the adapter into a power outlet. The PWR indicator light should illuminate, indicating the device is receiving power.

Step 4: Initial Configuration

To access the admin panel for initial setup:

1. Connect your computer to the gateway via an Ethernet cable (LAN port) or connect to its default Wi-Fi network

(SSID and password usually found on a sticker on the device or in the included user manual).

2. Open a web browser and navigate to the default gateway IP address (e.g.,http://192.168.8.1).
3. Follow the on-screen instructions to set up your administrator password and configure basic network settings.

Step 5: Mounting Options

The GL-X300B-RS485 offers flexible mounting options for various industrial environments:

- **DIN Rail Mounted:** For secure fixation in server racks or industrial control cabinets.
- **Wall Mounted:** To optimize Wi-Fi signal coverage, maximize range, and protect the device from potential damage.



Image: Illustrations demonstrating how the GL-X300B-RS485 can be mounted on a DIN rail for server room shelves or wall-mounted for improved Wi-Fi signal and protection.

Operating Instructions

Network Connectivity

- **4G LTE:** Once the SIM card is inserted and the device is powered on, the 4G indicator light will show the status of the cellular connection. The gateway can automatically switch to 4G LTE if the Ethernet WAN connection fails, ensuring continuous data transmission.
- **Ethernet WAN/LAN:** Use the WAN port to connect to an existing wired network for internet access. The LAN port provides network access to connected devices.
- **Wi-Fi:** The device operates on the 2.4GHz frequency band. Configure your Wi-Fi network name (SSID) and password through the admin panel.

Advanced Features

- **VPN Support:** The GL-X300B-RS485 comes with OpenWrt pre-installed and supports over 30 VPN service providers, including OpenVPN and WireGuard. This allows for secure and encrypted network communication.
- **AT Command Support:** For advanced users, the device supports AT commands for detailed configuration and management of the cellular module.
- **RS485 Interface:** The integrated RS485 interface enables connectivity with industrial IoT devices, facilitating data collection and control for various applications.
- **Hardware Watchdog:** A built-in hardware watchdog monitors the system's operation and can automatically trigger a processor reset if necessary, ensuring device stability and reliability.

Remote Device Management (GoodCloud)

The GL-X300B (Collie) can be remotely accessed, managed, and configured using the GoodCloud platform. This allows for centralized control and monitoring of your industrial gateways from anywhere.

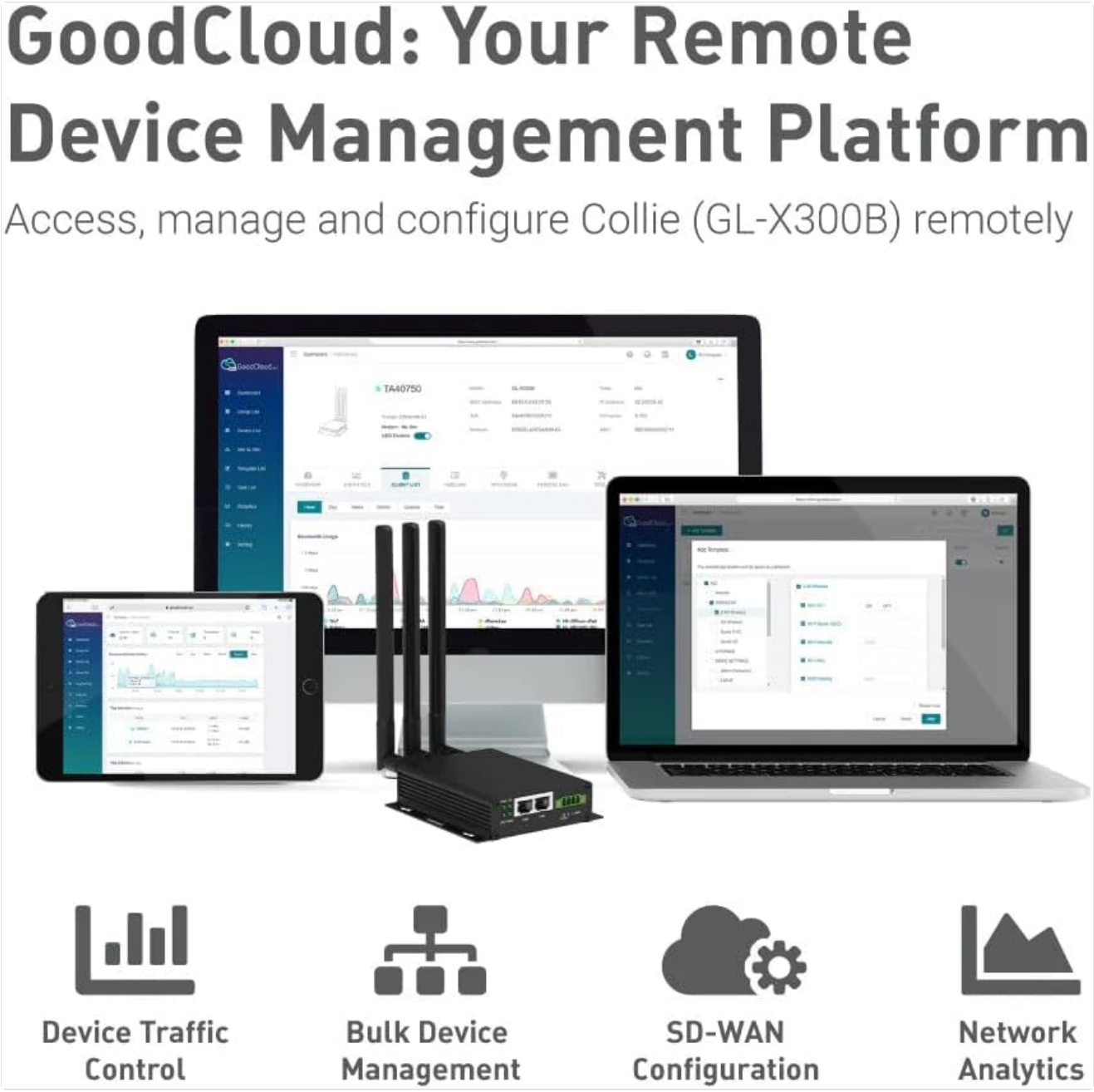


Image: Overview of the GoodCloud platform interface, demonstrating its capabilities for device traffic control, bulk device management, SD-WAN configuration, and network analytics across multiple devices.

Maintenance

- **Cleaning:** Regularly clean the exterior of the device with a soft, dry cloth. Avoid using liquid cleaners or aerosols.
- **Firmware Updates:** Periodically check the GL.iNet official website for firmware updates. Keeping your firmware up-to-date ensures optimal performance, security, and access to new features.
- **Environmental Conditions:** Ensure the device is operated within its specified temperature and humidity ranges to prevent damage and ensure longevity. The aluminum alloy shell is designed for tough industrial environments.

Troubleshooting

If you encounter issues with your GL-X300B-RS485, refer to the following common problems and solutions:

- **No Internet Connection:**
  - Check if the 4G antenna is securely connected and the SIM card is properly inserted and activated.
  - Verify that the Ethernet cable is securely connected to the WAN port if using a wired connection.
  - Access the admin panel to check the network status and ensure correct APN settings for your cellular provider.
  - Reboot the gateway and any connected modems/routers.
- **Wi-Fi Not Broadcasting or Connecting:**
  - Ensure the Wi-Fi antennas are securely attached.
  - Check the Wi-Fi settings in the admin panel, including SSID, password, and channel.
  - Verify that the Wi-Fi function is enabled.
- **Device Not Powering On:**
  - Ensure the power adapter is correctly connected to the device and a working power outlet.
  - Check the power adapter for any visible damage.
- **Slow Performance:**
  - Check the signal strength of your 4G LTE connection in the admin panel.
  - Ensure the device is placed in an optimal location for signal reception.
  - Limit the number of connected devices or bandwidth-intensive activities.

For more detailed troubleshooting or specific issues, please refer to the official GL.iNet documentation or contact customer support.

Technical Specifications

Model Name	GL-X300B-RS485 (Collie)
Brand	GL.iNet
Connectivity Technology	Ethernet, 4G LTE
Wireless Communication Standard	802.11n, 802.11b, 802.11g
Frequency Band Class	Single-Band (2.4 GHz)
Special Feature	Access Point Mode, Built-in 4G LTE Module, Hardware Watchdog, AT Command Support, RS485 Interface

Chipset	Qualcomm QCA9531
Operating System	OpenWrt pre-installed
Dimensions (L x W x H)	9.61 x 6.42 x 2.13 inches
Item Weight	1.32 pounds
Manufacturer	GL Technologies
Country of Origin	China

Warranty and Support

Warranty Information

The GL-X300B-RS485 Industrial Wireless Gateway comes with a**2-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and malfunctions under normal use conditions.

Customer Support

For technical assistance, additional documentation, or to report issues, please visit the official GL.iNet website or their support portal. You can find comprehensive guides and FAQs to help you with your device.
GL.iNet Official Docs: https://docs.gl-inet.com/
GL.iNet Brand Store on Amazon: https://www.amazon.com/stores/GLiNet/page/29597346-5A47-46F8-8B58-B041C1CC63A9

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Question

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