Canopy GWL1 PoE Powered WiFi LoRaWAN Gateway Owner's Manual

Contents

Canopy GWL1 PoE Powered WiFi LoRaWAN Gateway

Product Information

Specifications

- **Model:** GWL1
- **Power Source:** DC 12V or PoE
- **Wireless Connectivity:** BLE 5, LoRaWAN 1.1.0
- **Alert Latency:** 5 seconds end to end
- **Power Options:** 110V AC adapter / PoE, Automatic battery backup
- **Physical Security:** Tamper proof with tamper detection
- **Network Connectivity:** 2.4 GHz WiFi, Ethernet
- **Dust/Water Protection:** IP67
- **Antenna:** Fiberglass antennas

Product Usage Instructions

Installation

1. Choose a suitable location for the GWL1 gateway with access to power and network connectivity.
2. Connect the power source (DC 12V or PoE) to the gateway.
3. Connect the gateway to the network using either WiFi or Ethernet connection.
4. Ensure the gateway is securely mounted to prevent tampering.

Configuration

1. Access the gateway settings through a web browser by entering the IP address.
2. Follow the on-screen instructions to set up a WiFi or Ethernet connection and configure security settings.
3. Ensure proper antenna placement for optimal performance.

Maintenance

1. Regularly check the gateway for any physical damage or tampering.
2. Update firmware as recommended by the manufacturer to ensure security and performance.
3. Clean the fiberglass antennas periodically to maintain signal strength.

Frequently Asked Questions

Q: How do I reset the GWL1 gateway to factory settings?

A: To reset the gateway, locate the reset button on the device and hold it down for 10 seconds until the LED indicators flash.

Q: Can I use multiple GWL1 gateways in a single network?

A: Yes, you can deploy multiple GWL1 gateways within the same network to extend coverage and support more outdoor nodes.

GWL1

- GWL1 is a DC 12V or PoE-powered WiFi LoRaWAN gateway. It is a component of the Canopy Protect Outdoor infrastructure that is used to bridge Canopy Protect outdoor nodes to Canopy Cloud Services.
- It connects to Canopy Cloud Services through WiFi or Ethernet.

Features

- Bridges all versions of Canopy Protect outdoor nodes to Canopy Cloud Services.
- Can be powered through PoE or included AC adapter.
- Can be connected to the Internet through WiFi or Ethernet.
- Fully automated provisioning and over-the-air update system managed by Canopy mobile provisioning tools
- Ruggedized and Outdoor-Proof with tamper resistance and detection
- The backup battery kicks in during power outages and recharges upon power restoration.
- Button and RGB LED for administrative operations and status indication.

GWL1 Specifications

- **Wireless** BLE 5 for provisioning, LoRaWAN 1.1.0
- **Alert Latency** 5 seconds end to end from the outdoor node through the bridge gateway to the notification
- **Power** 110V AC adapter / PoE, Automatic battery backup
- **Physical Security** Tamper proof with tamper detection and notification via Canopy Cloud Services
- **Network** 2.4 GHz WiFi: 802.1X authentication, Ethernet
- **Dust/Water** Protection IP67

- **Antenna** Fiberglass antennas for excellent durability and performance

FCC STATEMENT

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
    1. This device may not cause harmful interference.
    2. This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, according to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used under the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

Documents / Resources

	Canopy GWL1 PoE Powered WiFi LoRaWAN Gateway [pdf] Owner's Manual GWL1, GWL1 PoE Powered WiFi LoRaWAN Gateway, PoE Powered WiFi LoRaWAN Gateway, Powered WiFi LoRaWAN Gateway, WiFi LoRaWAN Gateway, LoRaWAN Gateway, Gateway

References

- User Manual