



Coiliot Sense Gateway

Sense-RG-RW10

QUICK START GUIDE

1. Product Overview

The Coiliot Sense Gateway is a plug-in gateway designed to receive sensor data via sub-1G radio frequency signal and upload data to the cloud through 2.4 GHz Wi-Fi. The gateway supports Bluetooth Low Energy (BLE) for mobile app provisioning.

Key features

- 2.4 GHz Wi-Fi connectivity (ESP32-C3 module)
- BLE provisioning for Wi-Fi setup
- 433.92 MHz RF receiver (RX only) for sensor data reception
- USB Type-C power input (5 VDC)

2. In the box

- 1 × Coiliot Sense Gateway
- 1 × USB Type-C Cable
- 1 × USB Power Adapter (AC-DC)
- 1 × Quick User Guide

3. Power & Interface

Power Input

- Power via USB Type-C, 5 VDC
- Use the included USB power adapter and cable, or an equivalent 5 V USB power supply.

Buttons / Indicators

- Power LED: indicate power
- Internet LED: network status (see Section 6)
- Button: used for provisioning/reset (see Section 5)

Note: The actual LED behavior may vary by firmware version. For certification testing, please contact Coiliot for the specified test firmware and operating mode.

4. Installation

1. Place the gateway indoors in an open area, away from large metal objects.
2. Plug the gateway into power using the included USB adapter and USB-C cable.
3. Wait for the Status LED to indicate that the gateway is ready for provisioning.
4. Search for Coiliot Sense application in App store or Play store and install it.
5. Create an account and login into the Coiliot Sense app.

5. Wi-Fi Provisioning (BLE)

The gateway is provisioned through the Coiliot mobile application using BLE.

Steps

1. Install and open Coiliot Sense App on your phone.
2. Enable Bluetooth on your phone.
3. In the app, select Add Gateway.
4. Select the gateway from the BLE device list.
5. Enter the target 2.4 GHz Wi-Fi SSID and password.
6. Send credentials to the gateway.
7. The gateway will reboot and attempt to connect to Wi-Fi automatically.

Notes

- Only 2.4 GHz Wi-Fi is supported.
- Make sure your Wi-Fi router uses WPA/WPA2 (typical home settings).
- If provisioning fails, move the phone and gateway closer to the router and retry.

6. Internet LED status

- Blinking slow: BLE on, Provisioning mode / waiting for Wi-Fi credentials
- Blinking fast: Connecting to Wi-Fi / cloud
- Solid ON (stable): Connected and working normally

7. Normal Operation

After connecting to Wi-Fi, the gateway will:

- Listen for RF sensor transmissions (RF receiver).
- Decode received sensor data.
- Upload data to the configured cloud service automatically.

RF Notice

This gateway's radio module and antenna is used for receiving only (RX only) in normal operation.

8. Contact

Coiliot LLC

support@coiliot.com

<https://coiliot.com>

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant 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 in accordance with 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 receiver.
- Connect the equipment into 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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