SENSE IT
TECHNOLOGIES
MONITORING AND CONTROL SOLUTIONS



# LoRaWAN Outdoor Gateway - 868 Mhz (Internal Antenna)

**SKU: SI-LRW-GW-868-001**

Deploy a reliable outdoor LoRaWAN® gateway with integrated Wi-Fi, Ethernet and GPS for long-range IoT connectivity. Designed for industrial, agricultural and smart city applications, it provides secure, low-power communication between LoRaWAN sensors and the Sense It cloud platform in a compact weatherproof enclosure.

## OVERVIEW

This compact outdoor LoRaWAN® gateway provides reliable long-range connectivity for wireless IoT sensors in industrial, agricultural and commercial environments. Designed for permanent outdoor installations, it combines a high-performance LoRaWAN® concentrator with integrated Wi-Fi, Ethernet and GPS, allowing sensors to communicate securely with the Sense It cloud platform over large distances.

Its weatherproof IP54 enclosure is designed for wall or pole mounting and operates in temperatures from -40°C to 60°C, making it suitable for demanding outdoor environments. Integrated GPS enables accurate gateway location and time synchronisation, while built-in Wi-Fi simplifies commissioning and local management. The gateway supports passive PoE, DC power or automotive power, providing flexibility for fixed infrastructure and mobile deployments.

The gateway is ideal for connecting temperature, humidity, level, pressure, energy, weather and environmental sensors across farms, factories, warehouses, campuses and municipal infrastructure. Its long-range LoRaWAN® connectivity allows thousands of low-power sensors to communicate through a single gateway, significantly reducing communication costs while extending coverage over several kilometres.

Integrated with the Sense It monitoring platform, the gateway provides secure connectivity for live dashboards, historical trends, automated reporting and multi-channel alerts, making it the foundation of scalable industrial IoT deployments.

## KEY FEATURES

- Outdoor LoRaWAN® gateway
- Integrated 868 MHz LoRa® radio
- Built-in GPS receiver
- Ethernet and Wi-Fi connectivity
- Weatherproof IP54 enclosure
- Passive Power over Ethernet (PoE)
- Supports thousands of LoRaWAN devices
- Long-range wireless communication
- Wall and pole mounting
- Integrated RouterOS operating system
- Low power consumption
- Suitable for industrial, agricultural and smart city deployments

## TECHNICAL SPECIFICATIONS

### General

- Gateway type: Outdoor LoRaWAN® gateway
- Wireless technology: LoRaWAN®
- Integrated Wi-Fi: 2.4 GHz IEEE 802.11b/g/n
- Integrated GPS receiver
- Operating system: RouterOS v7
- Integrated LoRaWAN® concentrator
- Supports external LoRa antenna
- Supports external GPS antenna

### Connectivity

- 1 × 10/100 Mbps Ethernet port
- 2.4 GHz Wi-Fi
- Passive PoE input
- DC power input
- Automotive power input

### Power

- Power input: 9–30 VDC
- Automotive input: 12–30 VDC
- Passive PoE input: 9–30 VDC
- Maximum power consumption: 5 W

### Environmental

- Operating temperature: -40°C to 60°C
- Ingress protection: IP54

### Physical

- Processor: 650 MHz single-core
- Memory: 64 MB RAM
- Storage: 16 MB Flash

### Installation

- Pole mount
- Wall mount
- Outdoor installation

### Applications

- Industrial IoT
- Agriculture
- Environmental monitoring
- Weather monitoring
- Smart buildings
- Asset monitoring
- Utilities
- Municipal infrastructure
- Water and wastewater monitoring

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