SENSE IT
TECHNOLOGIES
MONITORING AND CONTROL SOLUTIONS



LoRaWAN Indoor Gateway - 868 Mhz

SKU: SI-LRW-GW-868-002

Deploy a reliable indoor LoRaWAN® gateway with Ethernet, Wi-Fi and optional 4G LTE connectivity for long-range IoT sensor communication. Designed for commercial and industrial applications, it connects thousands of wireless sensors to the Sense It cloud platform with secure, low-power, scalable connectivity.

OVERVIEW

This industrial indoor LoRaWAN® gateway provides secure, long-range connectivity for wireless IoT sensors in commercial and industrial environments. Featuring an 8-channel LoRaWAN® concentrator, a high-performance quad-core processor and multiple backhaul options including Ethernet, Wi-Fi and optional 4G LTE, it delivers reliable communication between field devices and the Sense It cloud platform.

Designed to support deployments ranging from a few sensors to thousands of devices, the gateway is ideal for smart buildings, warehouses, factories, agriculture, utilities, environmental monitoring and industrial automation. It can communicate with over 2,000 LoRaWAN® devices and provides coverage of up to 2 km in urban environments and up to 15 km in open rural areas, depending on terrain, antenna selection and installation height.

Installation is simple using Ethernet with PoE, USB Type-C power or optional cellular connectivity for locations where wired internet is unavailable. Integrated support for popular network servers and standard LoRaWAN® protocols makes deployment straightforward while ensuring compatibility with a wide range of wireless sensors.

When integrated with the Sense It platform, the gateway provides secure connectivity for live dashboards, historical reporting, automated alerts and remote device management, making it an ideal foundation for scalable IoT deployments.

KEY FEATURES

- Industrial indoor LoRaWAN® gateway
- 8-channel LoRaWAN® concentrator
- Supports over 2,000 LoRaWAN® devices
- Long-range wireless communication
- Ethernet, Wi-Fi and optional 4G LTE connectivity
- IEEE 802.3af Power over Ethernet (PoE)
- Built-in network server support
- Compatible with The Things Stack and ChirpStack
- Supports Node-RED integration
- Remote management and configuration
- Compact industrial metal enclosure
- Desktop, wall or DIN rail mounting
- Compatible with the Sense It monitoring platform

TECHNICAL SPECIFICATIONS

General

- Gateway type: Indoor LoRaWAN® gateway
- Wireless technology: LoRaWAN®
- LoRaWAN channels: 8 (half-duplex)
- Supports over 2,000 LoRaWAN® devices
- Coverage: Up to 2 km urban, up to 15 km line-of-sight
- Processor: Quad-core 1.3 GHz ARM Cortex-A35
- Memory: 512 MB DDR3 RAM
- Storage: 8 GB eMMC
- MicroSD card slot
- Built-in watchdog and hardware timer

LoRaWAN

- Frequency bands: EU868, US915, AU915, AS923, KR920, IN865, RU864, CN470
- Maximum transmit power: 27 dBm
- Receiver sensitivity: Up to -140 dBm
- Supports LoRaWAN Class A, B and C
- Supports Listen Before Talk (region dependent)

Connectivity

- 1 × 10/100 Mbps Ethernet port
- IEEE 802.3af Power over Ethernet (PoE PD)
- 2.4 GHz Wi-Fi (802.11 b/g/n)
- Optional 4G LTE connectivity
- Mini SIM slot (cellular model)
- USB Type-C console and power port

Power

- Power input: IEEE 802.3af PoE
- Power input: 5 VDC via USB Type-C
- Typical power consumption: 1.8 W
- Maximum power consumption: 6.9 W

Environmental

- Operating temperature: -20°C to 60°C
- Storage temperature: -40°C to 85°C
- Operating humidity: 0–95% RH (non-condensing)
- Ingress protection: IP30

Physical

- Housing material: Metal
- Dimensions: 110 × 75 × 24 mm
- Weight: 186 g

Installation

- Desktop installation
- Wall mounting
- DIN rail mounting

Applications

- Smart buildings
- Industrial automation
- Warehouses
- Agriculture
- Environmental monitoring
- Energy monitoring
- Utilities
- Smart cities
- Water and wastewater monitoring
- Factory monitoring

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