

Indoor LoRaWAN Gateway

The Lansitec Indoor LoRaWAN Gateway is designed for easy indoor deployment, featuring built-in Ethernet, optional LTE uplink, and 2.4 GHz Wi-Fi for quick AP-based configuration. Powered by Semtech's SX1302 chipset and supporting LoRaWAN V1.0.3, this gateway offers a scalable solution for small to medium-sized IoT applications. With OpenWRT software, built-in network server, and PoE compatibility, it simplifies installation and reduces both hardware and operational costs.

Full LoRaWAN Stack (V1.0.3)

Utilizes the Semtech SX1302 chipset with 8 channels for robust, wide-area coverage.

Quick Configuration

2.4 GHz Wi-Fi AP mode allows simple, intuitive setup via Web UI.

Multiple Backhaul Options

Ethernet (with PoE), Wi-Fi, or optional LTE Cat 4 connectivity.

Built-In Network Server

Offers easy application deployment and straightforward integration with other gateways.

OpenWRT Firmware

Web-based interface supports flexible customization and monitoring.

Failover Protection

TF card logs and buffers LoRa frames during backhaul disruption.



SCENARIO



SMART CAMPUS OR MALL

Cover large indoor spaces such as campuses, shopping malls, and convention centers with minimal gateways. Take advantage of built-in network server support for quick, unified device management.

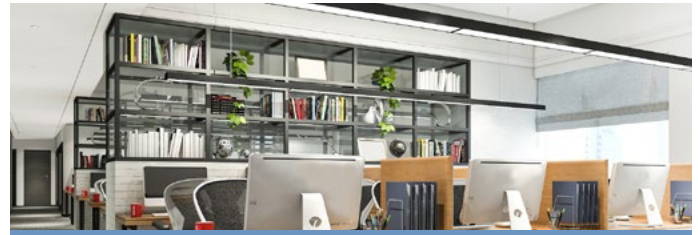


HEALTHCARE FACILITY TRACKING

Power indoor asset tracking (e.g., wheelchairs, beds, medical devices) for hospitals. Use Wi-Fi AP mode to configure, manage, and scale deployments rapidly.



AGRICULTURAL GREENHOUSES



TEMPORARY INSTALLATIONS

Deploy in large indoor farming operations, tracking humidity, temperature, and soil sensors. Leverage PoE or LTE for reliable connectivity where wired broadband is limited.

Place in pop-up events, trade shows, or temporary offices for swift IoT sensor deployment. The optional LTE uplink provides a reliable backhaul without needing permanent infrastructure.

SPECIFICATIONS

WIFI FEATURE

Frequency	2.4 GHz (802.11b/g/n)
RX Sensitivity	-95 dBm (Min)
TX Power	20 dBm (Max)
Operation Channels	2.4 GHz: 1-13

BLUETOOTH CONNECTIVITY

Card	SX1302 Mini PCIe card
Channels	8 Channels
RX Sensitivity	-139 dBm (Min)
TX Power	27 dBm (Max)
Frequency	EU433/CN470/EU868/US915/AS923/AU915/IN865/KR920

CELLULAR FEATURE

Supports Quectel EG95-E/EG95-NA (IoT/M2M -optimized LTE Cat 4 Module)

EG95 -E for EMEA Region:	LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM/EDGE: B3/B8
EG95 -NA for North America:	LTE FDD: B2/B4/B5/B12/B13 WCDMA: B2/B4/B5

MECHANICS

Power Supply	DC 12 V - 1 A, PoE (IEEE 802.3 af), 36~57 VDC
Power Consumption	12 W (typical)
ETH	RJ45 (10/100M)
Antenna	LoRa: RP-SMA female connector; LTE/WiFi: Internal antenna
Ingress Protection	IP30
Enclosure Material	ABS
Weight	0.3kg
Dimension	166*127*36mm
Operating Temperature	-10 to 55 °C
Storage Temperature	-40°C to +85°C

Operating Humidity	0% to 95% (non-condensing)
Storage Humidity	0% to 95% (non-condensing)
Installation Method	Wall Mounting
Computing	MT7628, DDR2 RAM 128 MB

ORDERING INFORMATION

Product Description	Part Number
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, NS, CN470	100-00029
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, CN470	100-00030
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, EU868	100-02158
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, US915	100-02156
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, AU915	100-02159
LoRaWAN Gateway, Indoor, 8 uplink channels, Ethernet, 4G, NS, AS923	100-02155
Certification	CE, FCC, RCM