

# LoRaWAN Gateway

## LPS8N



## OVERVIEW:

The LPS8N is an [open source LoRaWAN Indoor Gateway](#). It lets you bridge LoRa wireless network to an IP network via WiFi, Ethernet, 3G or 4G cellular network. The LoRa wireless allows users to send data and reach extremely long ranges at low data-rates.

The LPS8N uses [Semtech packet forwarder & LoRaWAN Basic Station](#) and fully compatible with LoRaWAN protocol. It includes a [SX1302 LoRa concentrator](#), which provides 10 programmable parallel demodulation paths.

LPS8N has [pre-configured standard LoRaWAN frequency bands](#) to use for different countries. User can also [customize the frequency bands](#) to use in their own LoRa network.

LPS8N can communicate with ABP LoRaWAN end node without LoRaWAN server. System integrator can use it to integrate with their existing IoT Service without set up own LoRaWAN server or use 3rd party LoRaWAN service.

## Features:

- LoRaWAN Gateway
- Support different level log in
- Open Source OpenWrt system
- Support LoRaWAN basic station
- Emulates 49x LoRa demodulators
- Support Semtech Packet Forwarder
- Optional 3G/4G cellular connection
- Managed by Web GUI, SSH via WAN or WiFi
- Remote access with Reverse-SSH or remote.it
- 10 programmable parallel demodulation paths
- Allow to customize LoRaWAN regional parameters.
- Pre-configure to support different LoRaWAN regional settings.
- Support Local decode ABP end node info and transfer to MQTT server

## Applications:

- Smart Metering
- Smart Agriculture
- Smart Cities
- Smart Factory
- Smart Buildings & Home Automation
- Logistics and Supply Chain Management

## Specifications:

### LoRa Interfaces:

- 1 x SX1302 + 2 x SX1250 LoRa Transceiver
- Max Output Power: 27dBm
- Sensitivity: -140dBm

### General Interfaces:

- 10M/100M RJ45 Ports x 1
- 1 x 2.4G WiFi (802.11 bgn)
- 1 x USB host port
- 1 x USB Type C port for power
- Power Input: 5v, 2A
- Optional 4G version

## Ordering Info:

- LPS8N-XXX-YYY:

XXX: Frequency Band

- 868 : For EU868,RUS864,IN865,KZ865
- 915 : For US915,AU915,AS923,KR920

YYY: 4G Cellular Option

- E: EMEA, Korea, Thailand, India.
- A: North America/ Rogers/AT&T/T-Mobile.
- AU: Latin America, New Zeland, Taiwan
- J: Japan, DOCOMO/SoftBank/ KDDI

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