

# LoRaWAN Indoor Gateway

## LIG16



## OVERVIEW:

The LIG16 is an open source LoRaWAN Gateway. It lets you bridge LoRa wireless network to an IP network via WiFi or Ethernet. The LoRa wireless allows users to send data and reach extremely long ranges at low data-rates.

The LIG16 supports [Semtech packet forwarder](#) and [LoRaWAN Station](#) connection, it is fully compatible with LoRaWAN protocol. LIG16 includes a [SX1302 LoRa concentrator](#), which is the new generation baseband LoRa chip for gateway with [lower current consumption](#) and higher amount of traffic than preceding devices.

LIG16 has [pre-configured standard LoRaWAN frequency bands](#) to use for different countries. User can also customize the frequency bands to use in their own LoRaWAN network.

LIG16 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.

LIG16 support [auto-provision](#) for mass deployment and long term maintain. System intergrator can easily change the

### Features:

- Open Source OpenWrt system
- Multi Channels LoRaWAN Gateway
- Support LoRaWAN Station Connection
- Support Semtech UDP packet forwarder
- Managed by Web GUI, SSH or cloud
- Remote Monitoring
- Auto-Provision

### Applications:

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

## Specifications:

### LoRa Interfaces:

- 1 x SX1302 + 2 x 1250 LoRa Transceiver
- 125 kHz LoRa reception with:
  - 8 x 8 channels LoRa® packet detectors
  - 8 x SF5-SF12 LoRa® demodulators
  - 8 x SF5-SF10 LoRa® demodulators
- Max Output Power: 25dBm
- 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

## Ordering Info:

- LIG16-470 (For Band: CN470)
- LIG16-868 (For Band: EU868,IN865, RU864,KZ865)
- LIG16-915 (For Bands: US915,AU915, AS923,KR920)