Open Source LoRaWAN Gateway

LG308N

OVERVIEW:

The LG308N is an open source LoRaWAN Pico 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 LG308N uses Semtech packet forwarder and fully compatible with LoRaWAN protocol. It includes a SX1302 LoRa concentrator, which provides 10 programmable parallel demodulation paths.

LG308N has pre-configured standard LoRaWAN frequency bands to use for different countries. User can also customized the frequency bands to use in their own LoRa network.

LG308N 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:

- Open Source Linux system
- Managed by Web GUI, SSH via LAN or WiFi
- Emulates 49x LoRa demodulators
- LoRaWAN Gateway
- 10 programmable parallel demodulation paths

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 1250 LoRa Transceiver
- Max Output Power: 27dBm
- Sensitivity: -142.5dBm

General Interfaces:
- 10M/100M RJ45 PoE Port x 2
- WiFi : 802.11 b/g/n
- 1 x USB host port
- 1 x Mini-PCIe Interface
- Power Input: 12v DC, 2A
- LoRaWAN Wireless

Order Info:

- LG308N-XXX-YYY:

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

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