DRAGINO

Open Source LoRaWAN Pico Gateway

LG308

OVERVIEW:

The LG308 is an open source LoRa Pico Gateway. It lets you bridge LoRa wireless network to an IP network via WiFi, Ethernet, 3G or 4G cellular. The LoRa wireless allows users to send data and reach extremely long ranges at low data-rates.

The LG308 is fully compatible with LoRaWAN protocol. It includes a SX1308 LoRa concentrator and a SX1276 LoRa transceiver, the sx1308 provide 10 programmable parallel demodulation paths. The SX1276 acts as TX channel so the SX1308 won't be block during TX. This provide higher capacity compare with a standalone SX1308 concentrator solution.

The LG308 has a built-in GPS module, the GPS module is connected to the SX1308 chip directly for LoRa localization solution for low power / indoor use.

Features:

- Open Source OpenWrt system
- Managed by Web GUI, SSH via LAN or WiFi
- LoRaWAN Gateway
- Emulates 49x LoRa demodulators
- 10 programmable parallel demodulation paths
- SX1276 base seperate TX path

Applications:

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

Specifications:

LoRa Interfaces:
- 1 x SX1308 + 2 x 1257 LoRa Tranceiver
- 1 x SX1276 LoRa Tranceiver
- 1 x GPS module for LoRa localization

General Interfaces:
- 10M/100M RJ45 Ports x 2
- 1 x 2.4G WiFi (802.11 bgn)
- 1 x USB host port
- 1 x Mini-PCIe Interface
- Power Input: 12v, 1A

Ordering Info:

- LG308-868 (For Band: EU868,IN865)
- LG308-868-EC25 (4G version)
- LG308-915 (For Bands: US915,AU915, AS923,KR920)
- LG308-915-EC25 (4G version)