LoRaWAN Indoor Gateway

OVERVIEW:

The Epro-LPS8v2 is an open-source LoRaWAN Gateway. It lets you bridge LoRa wireless network to an IP network via WiFi , Ethernet or Cellular Network (via Optional 4G module). The LoRa wireless allows users to send data and reach extremely long ranges at low data rates.

The Epro-LPS8v2 is fully compatible with LoRaWAN protocol. It supports different kinds of LoRaWAN Network Connections such as: Semtech UDP Packet Forwarder, LoRaWAN Basic Station, ChirpStack MQTT Bridge, and so on. This makes LPS8V2 work with most LoRaWAN platforms in the market.
Epro-LPS8v2 also includes a built-in LoRaWAN Server and IoT server, which provide the possibility for the system integrator to deploy the IoT service without cloud service or 3rd servers.

Different countries use different LoRaWAN frequency bands.Epro-LPS8v2 has these bands pre-configured. Users can also customize the frequency bands to use in their own LoRa network.

Epro-LPS8v2 supports remote management. System Integrator can easy to remote monitor the gateway and maintain it.

Features:

- LoRaWAN Gateway
- Semtech UDP Packet Forwarder
- ChirpStack-Gateway-Bridge (MQTT)
- Managed by Web GUI, SSH via WAN or WiFi
- 10 programmable parallel demodulation paths
- Built-in Node-Red local Application server
- Allow customizing LoRaWAN regional parameters.
- Built-in ChirpStack local LoRaWAN server
- Auto-provisioning for batch deployment and management
- Pre-configured to support different LoRaWAN regional settings.

- Remote Monitoring
- LoRaWAN Basic Station
- Open Source OpenWrt system

Specifications:

Hardware System:
- CPU: Quad-core Cortex-A7 1.2Ghz
- RAM: 512MB
- eMMC: 4GB

Interface:
- 10M/100M RJ45 Ports x 1
- Multi-Channel LoRaWAN Wireless
- WiFi 802.11 b/g/n
- Sensitivity: -140dBm
- Max Output Power: 27dBm

Operating Condition:
- Work Temperature: -20 ~ 70°C
- Storage Temperature: -20 ~ 70°C
- Power Input: 5V, 2A, DC