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DRAGINO LPS8v2 LoRaWAN Indoor Gateway Owner's Manual

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Contents

OVERVIEW

The LPS8v2 is an open-source Lora WAN Gateway. It lets you bridge Lora wireless network to an IP network via Wi-Fi , 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 LPS8v2 is fully compatible with Lora WAN protocol. It supports different kinds of Lora WAN Network Connections such as: Stitch UDP Packet Forwarder, Lora WAN Basic Station, Chirp Stack MQTT Bridge, and so on. This makes LPS8V2 work with most Lora WAN platforms in the market.

LPS8v2 also includes a built-in Lora WAN Server and Iota server, which provide the possibility for the system integrator to deploy the Iota service without cloud service or 3rd servers.

Different countries use different Lora WAN frequency bands. LPS8v2 has these bands pre -conffgured. Users can also customize the frequency bands to use in their own Lora network.

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

Features

- Managed by Web GUI, SSH via WAN or Wi-Fi
- 10 programmable parallel demodulation paths
- Built-in Node-Red local Application server
- Allow customizing Lora WAN regional parameters
- Built-in The Things Network local Lora WAN server
- Auto-provisioning for batch deployment and management
- Pre- configured to support different Lora WAN regional settings.
- Lora WAN Gateway
- Remote Monitoring
- Lora WAN Basic Station
- Open Source Openwork system
- Stitch UDP Packet Forwarder
- Chirps tack-Gateway-Bridge (MQTT)

Specifications

Hardware System:

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

Interface:

- 10M/100M RJ45 Ports x 1
- Multi-Channel Lora WAN 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

Ordering Info:

- LPS8v2-XXX-YYY:

  XXX: Frequency Band
- **XXX:** options: EU868,IN865,KR920,AS923, AU915,US915

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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Documents / Resources

DRAGINO LPS8v2 LoRaWAN Indoor Gateway [pdf] Owner's Manual
LPS8v2 LoRaWAN Indoor Gateway, LPS8v2, LoRaWAN Indoor Gateway, Indoor Gateway, Gateway

References

- ⑤ **Dragino :: Open Source WiFi, Linux Appliance**