

## Single Channel LoRa Gateway

# lg01n / Olg01n



#### Single Channel LoRa Gateway Indoor & Outdoor version

## **OVERVIEW**:

*LG01N & OLG01N* are open source single channel LoRa 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.

It provides ultra-long range spread spectrum communication and high interference immunity.

LG01N & OLG01N has WiFi interface, Ethernet port and USB host port. These Inter -faces provide flexible methods for users to connect their sensor networks to Internet. LG01N & OLG01N can support the LoRaWAN protocol in single frequency and custo-

mized LoRa transmit protocol. LG01N and OLG01N is the upgrade version of LG01-P

& LG01-S & OLG01 LoRa Gateway, the new version can support more end nodes. The aim for LG01N / OLG01N is to provide a low cost IoT wireless solution to support upto 300 sensor nodes.

## Specifications:

#### **Linux Side:**

·Processor: 400MHz, 24K MIPS ·Flash: 16MB ; RAM: 64MB

#### Interfaces:

·10M/100M RJ45 Ports x 2
·WiFi: 802.11 b/g/n
·LoRa Wireless
·Power Input: 12V DC
·USB 2.0 host connector x 1
·USB 2.0 host internal interface x 1
·3G/4G module (optional)

## **Order Option:**

#### Indoor Version: LG01-XXX-YY.

Outdoor Version: OLG01-XXX-YY.

**-XXX**:

433: For Bands: EU433, CN470 868: For Bands: EU868,IN865 915: For US915,AU915,AS923,KR920 -**YY**:

EC25-AU: Latin America, New Zeland, Taiwan EC25-E: EMEA, Korea, Thailand, India EC25-A: North America/ Rogers/AT&T/T-Mobile EC25-J: Japan, DOCOMO/SoftBank/ KDDI

### Features:

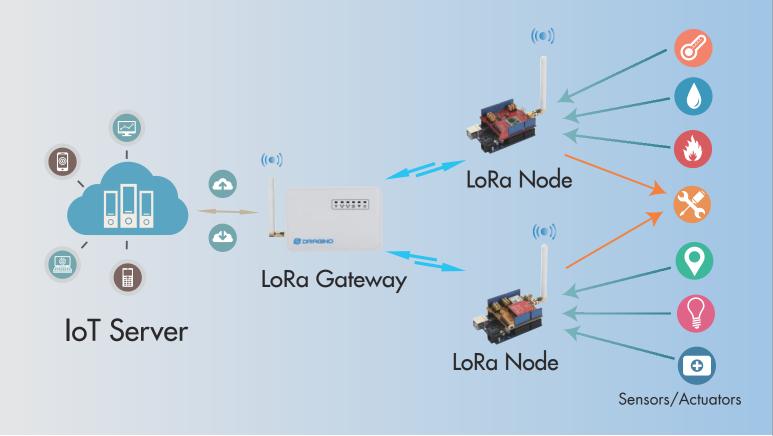
Open Source OpenWrt system
Low power consumption
Firmware upgrade via Web
Software upgradable via network
Flexible protocol to connect to IoT servers
Auto-Provisioning
Built-in web server
Managed by Web GUI, SSH via LAN or WiFi
Internet connection via LAN, WiFi, 3G or 4G
Failsafe design provides robustly system
1 x SX1276/SX1278 LoRa modules
Limited support in LoRaWAN/ Support Private LoRa protocol
Support upto 300 nodes
Max range in LoRa: 5~10 km. Density Area:>500m

## Dragino Technology Co., Limited

Room 1101, City Invest Commercial Center, No.546 QingLinRoad LongCheng Street, LongGang District ; Shenzhen 518116,China Direct: +86 755 86610829 Fax: +86 755 86647123 WWW.DRAGINO.COM sales@dragino.com



# LoRa Gateway Network Structure





## Applications:

- Wireless Alarm and Security Systems
- Home and Building Automation
- Automated Meter Reading
- Industrial Monitoring and Control
- Long range Irrigation Systems
- GPS tracker,etc

## Dragino Technology Co., Limited

Room 1101, City Invest Commercial Center, No.546 QingLinRoad LongCheng Street, LongGang District ; Shenzhen 518116,China Direct: +86 755 86610829 |Fax: +86 755 86647123

#### WWW.DRAGINO.COM sales@dragino.com