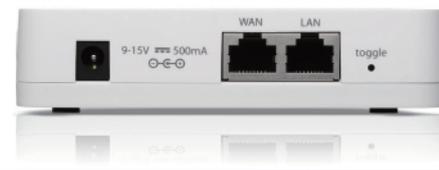


# Open Source LoRa WiFi Gateway

**LG01***LG01-P**LG01-S (Sensor Version)*

## OVERVIEW:

The LG01 is an open source single channel LoRa Gateway. It lets you bridge LoRa wireless network to an IP network via WiFi, Ethernet, 3G or 4G cellular.

LG01 has WiFi interface, Ethernet port and USB host port. These Interfaces provide flexible methods for users to connect their sensor networks to Internet.

LG01 runs Open Source OpenWrt system, user are free to modify the source file or compile the system to support their customized applications.

## Features:

- Open Source OpenWrt system
- Low power consumption
- Firmware upgrade via Web
- Software upgradable via network
- Auto-Provisioning
- Built-in web server
- Managed by Web GUI, SSH via LAN or WiFi
- Support WiFi AP, Client or Ad-Hoc(Mesh) mode
- Internet connection via LAN, WiFi, 3G or 4G
- Failsafe design provides robustly system
- LoRa band available at 433/868/915/920 Mhz
- Arduino IDE compatible. Easy to program.

## Specifications:

### Linux Side:

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

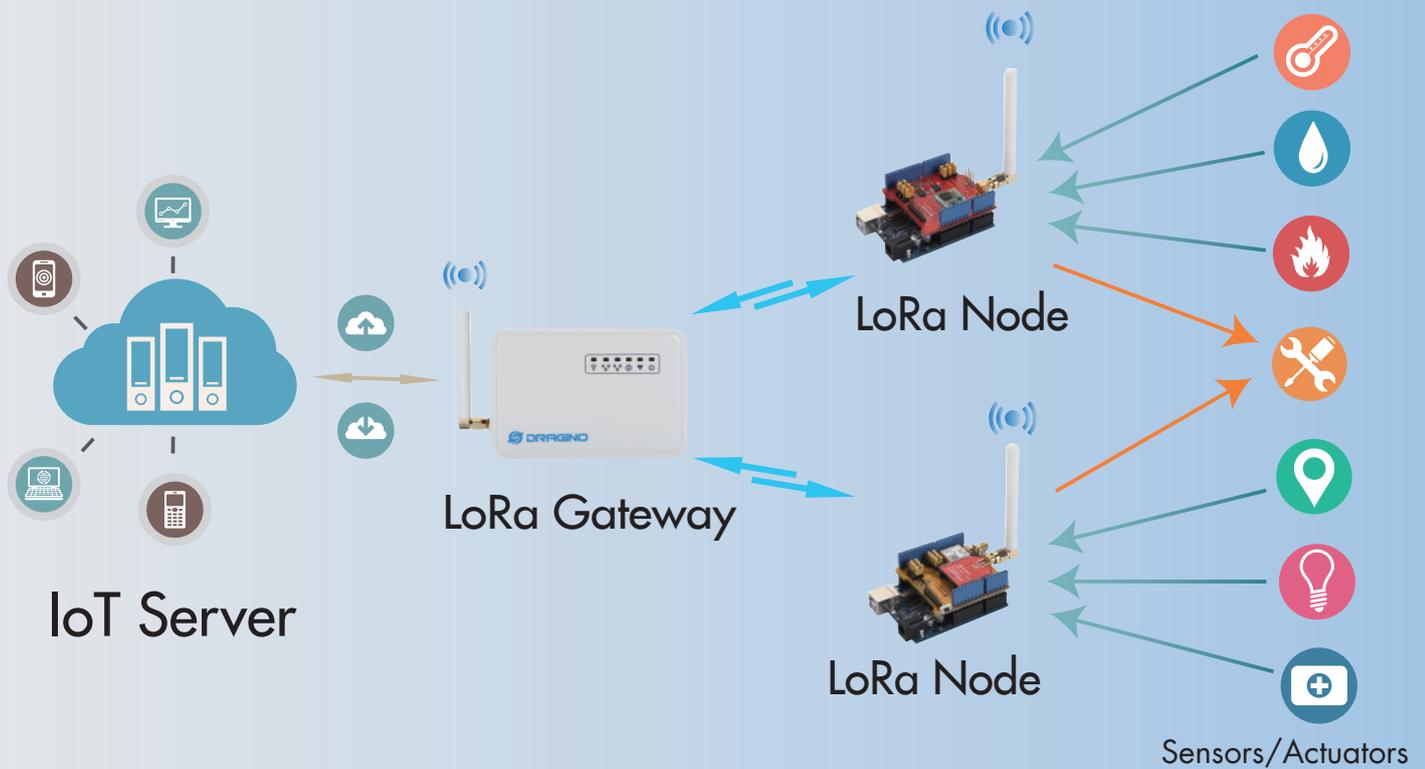
### MCU/LoRa Side:

- MCU: ATmega328P
- Flash:32KB, RAM:2KB
- LoRa Chip: SX2176/78

### 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
- 14 pos screw terminal (LG01-S)

# LoRa Gateway Network Structure



Smart farm



Intelligent Community



Smart home



Outdoor monitoring



Smart medical



Intelligent plant



Intelligent transport



Cloud computation

## Applications:

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

