

# F8L10GW-L Series

## F8L10GW-L Specification

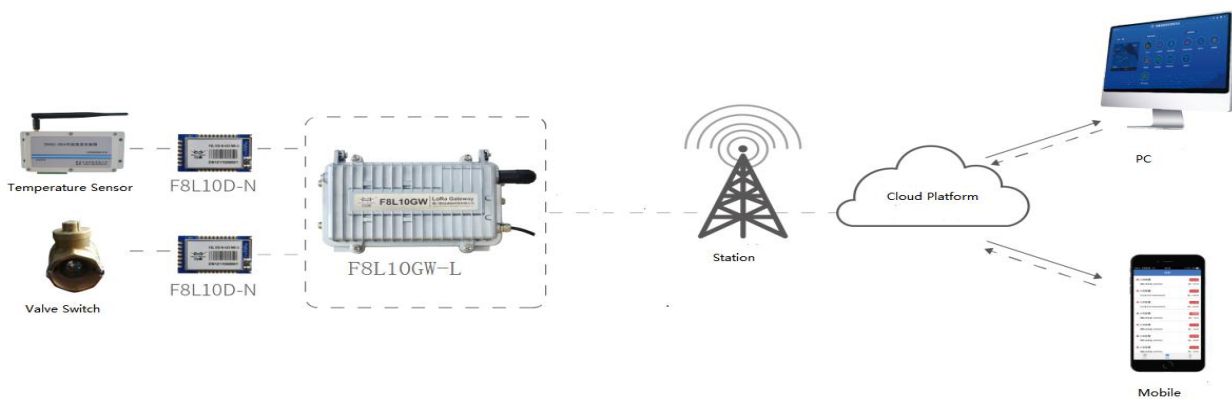
Version	Encryption Level
V1.0.0	



F8L10GW-L is a single channel water-proof wireless data transmission gateway based on Four-Faith LoRa protocol. It will collect information from Four-Faith LoRa terminals, and send to cloud server via 4G or wired network. can connect to it. This product adopts the high-performance industrial-grade 32-bits CPU and wireless module, with the embedded real-time operating system as the software support platform. It provides 1 Ethernet LAN, 1 WIFI, supports WIFI wireless configuration, management and OTA update, supports GPS, 220V power input. Optional power supply methods such as POE and DC.

This product has been widely used in the M2M industry of the IoT industrial chain, such as smart grid, intelligent transportation, smart home, finance, mobile POS gateways, supply chain automation, industrial automation, intelligent building, fire protection, public safety, environmental protection, meteorology, digital medical, telemetry, agriculture, forestry, water, coal, petrochemical and other related fields.

## Topology



## Features

### Industrial Design

- ◆ High performance industrial wireless communication module
- ◆ High performance industrial single channel LoRa chip
- ◆ Aluminum shell, IP67 protection
- ◆ AC220V, optional POE power and DC 9~36V

### Stable

- ◆ WDT watch dog to guarantee stable system
- ◆ Mature anti-drop mechanism to ensure always online
- ◆ Ethernet port with build-in 1.5kV ESD
- ◆ SIM/UIM interface with build-in 15KV ESD
- ◆ Power interface with build -in phase-reversal, over- voltage and lightning protection
- ◆ Antenna interface with lightning protection

### Easy- to -use

- ◆ Standard Ethernet and WIFI interface to connect Ethernet and WIFI devices directly
- ◆ Standard WAN port for wired network(Support PPPoE) to connect ADSL device directly
- ◆ Smart Terminal,ready for data transmission when powered
- ◆ Easy interface for configuration and maintain

### Powerful

- ◆ Wired network or SIM card via dhcp-4G(default) for network connection
- ◆ Four-Faith own LoRa protocol
- ◆ Transparent transmission via LoRa protocol
- ◆ WIFI supports 802.11b/g/n
- ◆ WIFI supports WEP,WPA, WPA2 encryption way, MAC filter

## Specification

<b>F8L10GW-L Parameter</b>	<ul style="list-style-type: none"><li>•Business Channel: Star topology, support relay</li><li>•Support Four-Faith own LoRa protocol</li><li>•Working Frequency:433MHz,470MHz,868MHz,915MHz</li><li>•Urban Communication Distance:6km</li><li>•TX power: 20dBm or 30dBm</li><li>•RX Sensitivity: -142dbm @LoRa for antenna</li><li>•Safety, reliable and low delay wireless transmission</li><li>•Report to server :4G or wired network</li><li>•WIFI: WiFi wireless management and upgrade</li><li>•Local Storage: 32G TF card suggested</li></ul>
<b>Antenna Interface</b>	<ul style="list-style-type: none"><li>•LoRa antenna : N type female,omnidirectional fiberglass antenna, 2dBi</li><li>•4G antenna: N type female, omnidirectional fiberglass antenna,3dBi</li><li>•WIFI antenna: N type female, omnidirectional fiberglass antenna,3dBi</li></ul>
<b>Power</b>	<ul style="list-style-type: none"><li>•Power Supply:AC220, POE(optional), DC 9-36V(optional)</li><li>•POE power support 10/100 Base-T auto MDI/MDIX</li><li>•POE standard: IEEE802.3af/IEEE802.3at</li></ul>
<b>Consumption</b>	<ul style="list-style-type: none"><li>•Standby:</li></ul>

	<p>Average <math>\leq 140\text{mA}@12\text{V}</math></p> <ul style="list-style-type: none"> <li>• Communication: <ul style="list-style-type: none"> <li>TX <math>\leq 550\text{mA}@12\text{V}</math></li> <li>RX <math>\leq 420\text{mA}@12\text{V}</math></li> </ul> </li> </ul>
Physical Features	<ul style="list-style-type: none"> <li>• Size: 289.4x217.5x115.0 mm(Antennas and accessories are not include)</li> <li>• Weight: about 2700g(Antennas, accessories and PoE power are not included)</li> <li>• Installation: Wall mounting or Pole mounting</li> </ul>
Others	<ul style="list-style-type: none"> <li>• Working Temperature: <math>-35\sim+75^{\circ}\text{C}</math></li> <li>• Storage temperature: <math>-40\sim+125^{\circ}\text{C}</math></li> <li>• Humidity: 95%(no freezing)</li> </ul>

## Order Information

Model	Description	Remarks
F8L10GW-L-433-L/ F8L10GW-L-433-N	LoRa+ LTE WIFI GATEWAY/ LoRa+WIFI GATEWAY	Power: AC220V (Default) POE(Optional) DC 9~36V(Optional) Installation:Wall mounting(Default) Pole mounting(Optional)
F8L10GW-L-470-L/ F8L10GW-L-470-N	LoRa+ LTE WIFI GATEWAY/ LoRa+WIFI GATEWAY	Power: AC220V (Default) POE(Optional) DC 9~36V(Optional) Installation:Wall mounting(Default) Pole mounting(Optional)
F8L10GW-L-868-L/ F8L10GW-L-868-N	LoRa+ LTE WIFI GATEWAY/ LoRa+WIFI GATEWAY	Power: AC220V (Default) POE(Optional) DC 9~36V(Optional) Installation:Wall mounting(Default) Pole mounting(Optional)

Note: F8L10GW-L-868 can be used for 868Mhz and 915Mhz.