

F8L10GW

LoRaWAN Gateway



F8L10GW is a wireless data transmission gateway based on standard LoRaWAN protocol. It can be connected to LoRaWAN terminals in various application nodes, collects useful information and sends the data to cloud server through wireless **3G/4G cellular network** or wired ethernet.

The product uses 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** interface, supports WIFI wireless configuration, management and OTA update, supports GPS, 220V power input. Optional power supply methods such as POE and DC.

The 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.

HIGHLIGHT

INDUSTRIAL-GRADE DESIGN

- ◆ High-performance industrial-grade CPU and wireless module
- ◆ High-performance industrial-grade multi-channel LoRaWAN gateway RF chip
- ◆ Aluminum shell, IP67 protection
- ◆ Support AC 220V, POE (optional), DC 12-48V (optional) or solar power supply (optional)
- ◆ CE & FCC

POWERFUL FUNCTIONS

- ◆ Provide wired Ethernet and dhcp-4G (default) connection modes
- ◆ Support LoRaWAN protocol: **Class A**, **Class C**
- ◆ Support **802.11 b / g / n** WIFI network
- ◆ WIFI support variety types of encryption such as **WEP**, **WPA** and **WPA2**. Support **MAC** address filtering
- ◆ Support **LoRaWAN** wireless data transmission protocol

STABLE & RELIABLE

- WDT watchdog timer to ensure system stability
- Mature anti-drop mechanism to ensure device always online
- Ethernet interface with built-in 15KV ESD
- SIM/UIM card interface with built-in 15KV ESD
- Power interface with built-in phase-reversal, over-voltage and lightning protection
- Antenna interface with lightning protection

STANDARD INTERFACE & EASY-TO-USE

- Provide standard Ethernet and WIFI interface, can be connected to device by Ethernet and WIFI directly
- Provide standard wired WAN interface (support standard PPPOE protocol), can be connected to ADSL device directly
- Provide powerful central management software to facilitate equipment
- Convenient system configuration and maintenance interface
- Intelligent data terminal, automatically enter transmission status after power-on

TYPICAL APPLICATION

- ◆ Smart grid power line online monitoring
- ◆ Smart parking solution
- ◆ Soil temperature and humidity monitoring
- ◆ Intelligent Agriculture
- ◆ Wireless remote meter reading
- ◆ Photovoltaic array monitoring

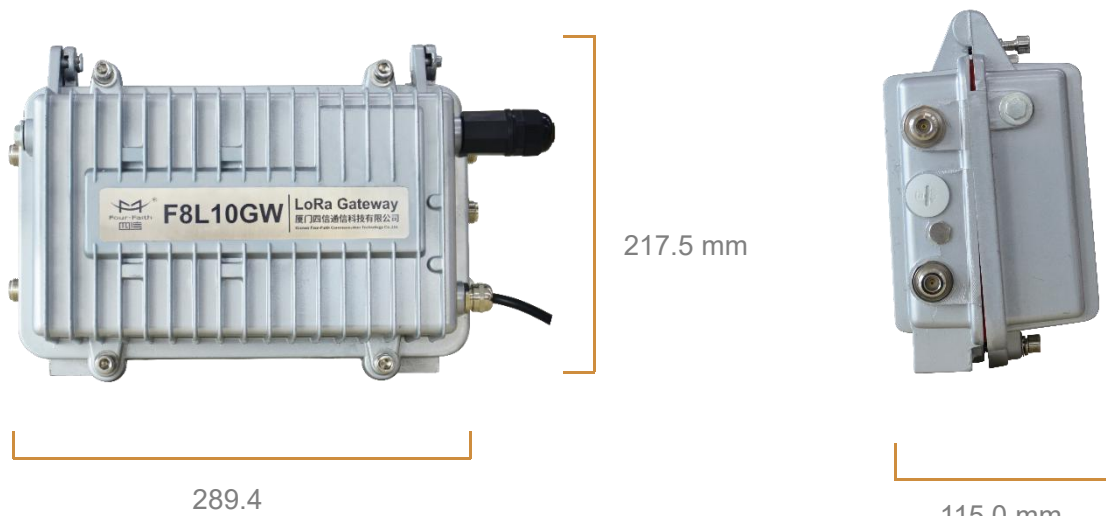
SPECIFICATIONS

CHARACTERISTICS

Network Structure	Simple Star Network Topology and support repeater function
LoRaWAN Protocol	Class A, Class C
Band	EU433, CN470-510, CN779-787, EU863-870, US902-928, AU915-928, AS923, KR920-923
Urban Communication Distance	6Km
Output Power	23±2dBm
Sensitivity	-142dbm@LoRa -70dbm@WIFI
Bandwidth	125kHz \ 250kHz \ 500kHz

Upstream Channel	8
Downstream Channel	1
Data Rate	ADR
Working Mode	Support full-duplex and half-duplex
Location Service	GPS, Beidou (optional)
Server Report Method	3G/ 4G/ Wired Ethernet
Local Storage	32G TF card
ANTENNA	
LoRa	N-type female antenna, omnidirectional fiberglass antenna, 2dBi
4G Cellular	N-type female antenna, omnidirectional fiberglass antenna, 3dBi
WIFI	N-type female antenna, 2.4G omnidirectional fiberglass antenna, 3dBi
GPS	N-type female antenna, omnidirectional fiberglass antenna, 4dBi
POWER SUPPLY	
Standard	AC 220V
Range	DC 9~36 V
POE (optional)	10/100 Base-T, IEEE802.3af/IEEE802.3at standard
POWER CONSUMPTION	
Stand By	Average Current ≤ 140mA@12V
Communication	TXD ≤ 550mA@12V RXD ≤ 420mA@12V
PHYSICAL PROPERTIES	
Installation	Wall mounting or pole mounting
Dimensions	289.4x217.5x115.0mm
Weight	2700g
Shell	IP67
OTHERS	
Operating Temperature	-35~+75°C (-40~+185°F)
Storage Temperature	-40~+125°C (-40~+257°F)
Relative Humidity	95% (non-condensing)
Platform	Four-Faith Cloud \ TTN \ LoRa \ LinkWAN \ CLAA
Certifications	CE & FCC

PICTURES



Note: There may be differences between models of accessories and interfaces, actual products shall prevail.

CONTACT



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ORDERING

Model	Description	Remark
F8L10GW-433-L	LoRa+LTE+WIFI GATEWAY	Power Supply: AC220 (Default) Installation: Wall-mounting (Default)
F8L10GW-470-L	LoRa+LTE+WIFI GATEWAY	
F8L10GW-868-L	LoRa+LTE+WIFI GATEWAY	
F8L10GW-915-L	LoRa+LTE+WIFI GATEWAY	