

# F8926-GW

## LoRaWAN Gateway



**F8926GW** is a wireless data transmission gateway based on standard LoRaWAN protocol, and it applicable to the terminal and NS which meets 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 port.

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\*LAN/WAN, 1\*WIFI, 1\*USIM, 3\*antenna interfaces and DC power supply. And it supports wireless configuration, management and online update.

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-channels LoRaWAN gateway RF chip
- ◆ Aluminum shell, IP30 protection
- ◆ DC 9-36V, standard: 12V/1.5A

#### POWERFUL FUNCTIONS

- ◆ Provide wired Ethernet and dhcp-4G (default) connection modes
- ◆ Support LoRaWAN protocol: Class A, Class B\* and Class C
- ◆ WIFI standard: 802.11 b/g/n
- ◆ WIFI encryption: WEP, WPA and WPA2 encryption. Support MAC address filtering
- ◆ Support wireless data transmission by LoRaWAN 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 RS232(or RS485/RS422), Ethernet and WIFI interface, can be connected to device by Serial, Ethernet and WIFI directly
- ◆ Provide standard wired WAN/LAN 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

<b>Network Structure</b>	Simple star network topology and support repeater mode
<b>LoRaWAN Protocol</b>	Class A, Class B*, Class C
<b>Band</b>	EU433, CN470-510, CN779-787, EU863-870, US902-928, AU915-928, AS923, KR920-923
<b>Outdoor</b>	3.5km
<b>Out Power</b>	23±2dBm
<b>Sensitivity</b>	-142dBm@LoRa
<b>Bandwidth</b>	125kHz \ 250kHz \ 500kHz
<b>Upstream Channel</b>	8
<b>Downstream Channel</b>	1
<b>Speed Rate</b>	ADR

<b>Working Mode</b>	Support full-duplex and half-duplex
<b>Server Report Method</b>	Support 3G/4G or wired-ethernet
<b>Management</b>	Management and upgrade by WIFI
<b>ANTENNA</b>	
<b>Cellular</b>	1*Standard SMA female antenna interface, characteristic impedance: 50Ω
<b>LoRa</b>	1*Standard SMA female antenna interface, characteristic impedance: 50Ω
<b>WIFI</b>	1*Standard SMA male antenna interface, characteristic impedance: 50Ω
<b>POWER SUPPLY</b>	
<b>Standard</b>	12V/1.5A
<b>Range</b>	DC 9~36V
<b>POWER CONSUMPTION</b>	
<b>Stand By</b>	Average Current ≤145mA@12V
<b>Communication</b>	TXD ≤ 450mA@12V RXD ≤ 390mA@12V
<b>PHYSICAL PROPERTIES</b>	
<b>Dimensions</b>	157x97x25mm
<b>Weight</b>	510g
<b>Shell</b>	IP30
<b>OTHERS</b>	
<b>Operating Temperature</b>	-35~+75°C
<b>Storage Temperature</b>	-40~+85°C
<b>Relative Humidity</b>	95% (non-condensing)
<b>Certifications</b>	CE
	

**Remark:** "\*" it means in development.

## PICTURES



## CONTACT



### Four-Faith Corporation

**Email:** [sales@four-faith.com](mailto:sales@four-faith.com)

**Tel.:** +86-592-5907276

**Website:** [en.four-faith.com](http://en.four-faith.com)

**Address.:** 11<sup>th</sup> Floor, A-06 Area, No.370, Chengyi Street, Jimei, Xiamen, Fujian, China

Model	Description
F8926-GW-L-433	LORA+LTE WIFI GATEWAY
F8926-GW-L-470	LORA+LTE WIFI GATEWAY
F8926-GW-L-868	LORA+LTE WIFI GATEWAY
F8926-GW-L-915	LORA+LTE WIFI GATEWAY
F8926-GW-W-433	LORA+WCDMA WIFI GATEWAY
F8926-GW-W-470	LORA+WCDMA WIFI GATEWAY
F8926-GW-W-868	LORA+WCDMA WIFI GATEWAY
F8926-GW-W-915	LORA+WCDMA WIFI GATEWAY