

## Features



- Up to 8 concurrent channels for LoRa transmission
- Built-in 2.4G 802.11b/g/n Wireless LAN
- Optional support a wide frequency range from 470MHz to 928MHz in different SKU  
\*see specification below for more details
- Various Internet connection: Ethernet, Wireless bridge
- Web UI for LoRa and network configuration
- Support Listen Before Talk for downlink
- Support OTA and USB upgrade

Browan has been instrumental in the development of LPWAN system solutions and is an early provider of LoRaWAN protocol based, end-to-end LPWAN solutions. The LoRaWAN technology is designed to connect low-cost, battery-operated sensors over long distances in harsh environments that were previously too challenging or cost-prohibitive to connect. Because of its long range, high penetration and high sensitivity capabilities, it is a much more cost-effective way for service providers to deploy LoRaWAN network for sensor applications in vertical market domain.

This Femto Gateway is specifically designed for wide area IoT applications. Applications include, but not limited to home security, automatic meter reading, monitoring fault indicators, monitoring streetlights, etc. This gateway is Femto type and very suitable for small business or private area use case like parking space, exhibition center or campus etc. It is also suitable for providing coverage for indoor blind spots.

## Specification

<b>Model Name</b>	WLRGFM-100
<b>Product Name</b>	IOT Femto Gateway
<b>Frequency Band</b>	EU 862~870 MHz / US 902~928 MHz / IN 865~867 MHz / AS 923 MHz / CN 470~510 MHz
<b>Number of Channels</b>	Up to 8 concurrent channels
<b>Wireless LAN</b>	802.11 b/g/n 2.4G
<b>WAN Protocol</b>	LoRaWAN
<b>Modulation</b>	Based on LoRaWAN
<b>RF Transceiver</b>	SX1301 or SX1308 with SX1257 (additional SX1276 for LBT and background scan)
<b>Transmit RF Power</b>	0.5W (up to 27 dBm)
<b>Receive Sensitivity</b>	Down to -142 dBm
<b>Operating Temperature</b>	-10°C ~ 55°C
<b>Storage Temperature</b>	-10°C ~ 60°C
<b>Power Supply</b>	5VDC/2A via mini-USB port

# Indoor Femto Gateway

Doc ver.: BQW\_03\_0005.006



## Specification (continues)

<b>Antenna Type</b>	Built-in Wi-Fi and LoRa antenna and one (1) external SMA connector for LoRa antenna
<b>Interfaces</b>	1 LAN 10/100Mbps, 1 USB 2.0 for firmware upgrade, 4 LED indicators
<b>Dimensions</b>	L:116 x W:91 x H:27 mm
<b>Weight</b>	160 g
<b>Security</b>	AES 128
<b>Type Approval</b>	FCC/CE/TELEC/ANATEL

## SKU Detail

SKU	Country	Channels	Frequency Band (MHz)	Wifi 2.4 G channel
US	USA	8	US915 (902~928)	1~11
TW	Taiwan	8	AS923 (920~925)	1~11
CN	China	8	CN470 (470~510)	N
JP	Japan	8	AS923 (920~928)	1~13
KR	Korea	8	KR920 (920~928)	N
EU	Europe	8	EU868 (862~870)	1~13
AU	Australia/Brazil	8	AU915 (915~928)	1~13

- Samples are also available for IN 865~867 MHz.
- Optional features supports LoRaWAN Standalone Mode (Embedded Network Server), please contact us for more details



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