

# Femto Lite Indoor Gateway

Doc ver.: BQW\_03\_0033.003

## Features



- Up to 8 concurrent channels for LoRa transmission
- Built-in 2.4G 802.11b/g/n Wireless LAN
- Various Internet connection: Ethernet, WiFi(Wireless bridge)
- Support LoRaWAN 1.0.3 packet forwarder and Basic Station mode(switched through local WEB GUI)
- Ethernet/WiFi Configuration through local WEB GUI
- Web UI for LoRa and network configuration
- Support Listen Before Talk for downlink
- Support F/W upgrade through Browan OTA
- Internal antennas for LoRa and WiFi connection

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 the LoRaWAN network for sensor applications in the vertical market domain.

The Femto Lite Gateway is specifically designed for wide-area IoT applications and very cost-effectively with a built-in antenna. 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 cases like parking space, exhibition center or campus, etc. It is also suitable for providing coverage for indoor blind spots.

## Specification

<b>Model Name</b>	WLRRTES-106
<b>Product Name</b>	IoT Femto Lite Gateway
<b>Frequency Band</b>	EU 863~870 MHz / US 902~928 MHz / IN 865~867 MHz / AS 923 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>	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>	0°C ~ 50°C
<b>Storage Temperature</b>	-10°C ~ 60°C
<b>Power Supply</b>	5VDC/2A via Micro-USB port

# Femto Lite Indoor LoRa Gateway

Doc ver.: BQW\_03\_0033.003

## Specification (continues)

<b>Antenna Type</b>	Built-in Wi-Fi and LoRa antenna
<b>Interfaces</b>	1 LAN 10/100Mbps, 1 Micro-USB for power input, 4 LED indicators, Reset Button
<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>	CE / FCC(TBD)

## 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
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.