

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

Model Name	WLRRTES-106
Product Name	IoT Femto Lite Gateway
Frequency Band	EU 863~870 MHz / US 902~928 MHz / IN 865~867 MHz / AS 923 MHz
Number of Channels	Up to 8 concurrent channels
Wireless LAN	802.11 b/g/n 2.4G
WAN Protocol	LoRaWAN
Modulation	Based on LoRaWAN
RF Transceiver	Semtech SX1308/SX1302
Transmit RF Power	0.5W (up to 27 dBm)
Receive Sensitivity	Down to -140 dBm
Operating Temperature	0°C ~ 50°C
Storage Temperature	-10°C ~ 60°C
Power Supply	5VDC/2A via Micro-USB port



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Specification (continues)

Antenna Type	Built-in Wi-Fi and LoRa antenna
Interfaces	1 LAN 10/100Mbps, 1 Micro-USB for power input, 4 LED indicators, Reset Button
Dimensions	L:116 x W:91 x H:27 mm
Weight	160 g
Security	AES 128
Type Approval	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.