

# Pico Next Indoor Gateway

Doc ver.: BQW\_03\_0034.005

## Features



- Compliance to LoRaWAN 1.0.3
- Support Packet Forward/Basic Station Mode
- Support Spectral Scan & Listen Before Talk(LBT)
- Various Internet connections: Ethernet and 3G/4G backhaul failover
- Web GUI for OpenVPN Client configuration and Packet Forward's LoRa packet filter
- Support manual local and internet firmware upgrade
- CAN 2.0 design is reserved for future data communication purposes
- Customizable SKU: (1) LTE-M back-haul  
(2) Wi-Fi backhaul with GPS
- Customizable LTE-M 3G/4G module for different Country

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 LoRa Cellular Gateway is specifically designed for wide-area IoT applications. Applications include, but are not limited to home security, automatic meter reading, monitoring fault indicators, monitoring streetlights, etc. This gateway is very suitable for small business or private area use cases like parking space, exhibition center or campus, etc.

## Specification

<b>Model Name</b>	L0006 and L0007 series
<b>LoRaWAN Specification</b>	LoRaWAN 1.0.3
<b>Frequency Band</b>	EU 863~870 MHz / US 902~928 MHz / AU 915~928 MHz
<b>Number of Channels</b>	Up to 8 concurrent channels for LoRa transmission
<b>LoRa Modulation</b>	Based on LoRaWAN
<b>LoRa RF Transceiver</b>	Semtech SX1308 / SX1302
<b>LoRa Transmit Power</b>	0.5W (up to 27 dBm)
<b>LoRa Receive Sensitivity</b>	Down to -140 dBm (conducted)
<b>LoRa Software</b>	<ul style="list-style-type: none"><li>• Packet forward mode / Basic Station Mode</li><li>• AWS IoT Core with Basic station mode (Customizable by request)</li></ul>
<b>Operating Temperature</b>	-10°C ~ 55°C
<b>Storage Temperature</b>	-20°C ~ 60°C

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## Specification (continue)

<b>Power Supply</b>	DC 12 V/1.5 A-Power Adaptor DC 10~30 V 3-Pin Connector Power supply Passive PoE 10~30 V
<b>GPS</b>	GPS + GLONASS, L1C/A band (optional for time-stamping) (*)
<b>Wi-Fi</b>	802.11b/g/n, 1x1, 2.4GHz (optional for backhaul) (*)
<b>4G LTE</b>	Quectel PCIe module (LTE Cat 4 or Cat M1/NB2(*))
<b>Interfaces</b>	<ul style="list-style-type: none"><li>• 1 WAN RJ45 10/100Mbps (w/ passive PoE capability)</li><li>• 1 Reset button</li><li>• 1 SIM card slot (2FF)</li><li>• 1 DC jack in / 1 terminal block</li><li>• 4 LED indicators</li><li>• 1 CAN 2.0 (*)</li></ul>
<b>Antenna Type</b>	<ul style="list-style-type: none"><li>• 1 external LoRa antenna</li><li>• 1 external 4G antenna</li><li>• 1 external Wi-Fi antenna (*)</li><li>• 1 external GPS antenna (*)</li></ul>
<b>Dimensions</b>	L:120 x W:136 x H:35mm
<b>Weight</b>	0.45 kg
<b>Security</b>	AES 128
<b>Type Approval</b>	FCC / IC / CE / RCM

Remark: “\*” means the function is supported in different SKU. Primary SKU is without Wi-Fi/GPS for the US/EU market. GPS and Wi-Fi functions will be based on customers’ requests.

## L0006 SKU Detail

SKU	Country	Channels	LoRa chip	Frequency Band (MHz)	3G/4G Module	Wi-Fi	GPS
08-868M-EU-M	Europe	8	SX1308	EU868 (862~870)	EC25-EUX	N	N
08-868M-EU-M-W-G	Europe	8	SX1308	EU868 (862~870)	EC25-EUX	Y	Y
08-900M-A-M	USA	8	SX1308	US915 (902~928)	EC25-A	N	N
08-900M-A-M-W-G	USA	8	SX1308	US915 (902~928)	EC25-A	Y	Y
08-900M-AU-M	Australia	8	SX1308	AU915 (915~928)	EC25-AU	N	N

\*Note: Reserved customizable features as shown below:

1. CAN 2.0 design is reserved for future data communication purpose.
2. LTE-M back-haul SKU is customizable by request.
3. 3G/4G module is customizable to meet country-specific regulations.
4. AWS IoT Core with Basic station Mode is customizable by request.
5. Other frequency band is customizable by request. (AS923 etc.)

For more details, please contact us at our website: [www.browan.com](http://www.browan.com) or directly via email: [sales@browan.com](mailto:sales@browan.com)

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## L0007 SKU Detail

SKU	Country	Channels	LoRa chip	Frequency Band (MHz)	3G/4G Module	Wi-Fi	GPS
02-900M-A-W	USA	8	SX1302	US915 (902~928)	N	Y	N
03-900M-A-W-G	USA	8	SX1303	US915 (902~928)	N	Y	Y

\*Note: Reserved customizable features as shown below:

1. CAN 2.0 design is reserved for future data communication purpose.
2. LTE-M back-haul SKU is customizable by request.
3. 3G/4G module is customizable to meet country-specific regulations.
4. AWS IoT Core with Basic station Mode is customizable by request.
5. Other frequency band is customizable by request. (AS923 etc.)

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## LTE Band Support

Cat-4 Module	EC25-EUX	EC25-J *	EC25-A	EC25-AU
Countries	EMEA / Asia	Japan	North America	Australia / South America / Asia
LTE FDD	B1/B3/B7/ B20/B28A	B1/B3/B5/B18/ B19/B26	B2/B4/B12	B1/B2/B3/B4 B5/B7/B28
LTE TDD	B38/B40/B41	B41	X	B40
WCDMA	B1	B1/B6/B19	B2/B4/B5 (no voice)	B1/B2/B5

Remark: "\*" means the LTE band is reserved for customization upon customer request.

## LTE Cat-M1 Band Support

Cat-M1 Module	BG95 Series *
Mode	Cat M1/ Cat NB2/ EGPRS/ GNSS/
Frequency Bands	1/2/3/4/5/8/12/13/18/19/20/ 25/26①/27①/28/31/66/71②/72/73/85
Remark	① Cat M1 Bands Only ② Cat NB2 Bands Only

Remark: "\*" means the LTE band is reserved for customization upon customer request.

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