

Bluetooth LE Gateway Datasheet

Model No.: JW1600

V1.0.1

Model	Description
JW1600-9001A	Bluetooth LE Gateway, 2G network, IP65 waterproof, Solar powered, USB cable powered, Rechargeable, Outdoor working, Upload data to server, Black / White color.

The Bluetooth LE Gateway JW1600 is a Bluetooth® Low Energy gateway device, it is designed to scan nearby bluetooth beacon advertising package, can be used for asset tracking, people tracking, pet tracking, sensor data collecting, SOS button signal collecting, etc.

FEATURES

- Support customized firmware
- -91 dBm sensitivity
- 13 mA peak RX,
- 10.5 mA peak TX (0 dBm)
- Easy to print the logo



SPECIFICATION

JW1600 Bluetooth LE Gateway

Compatibility

- Compatible with all Bluetooth® 4.0 and above BLE advertising devices;

Rechargeable battery and Battery Level

- Rechargeable battery;

Soft Reboot

- Not supported;

OTA and J-Link

- Upgrade via Over-The-Air not supported;
- Reserved J-Link port on the board for programming;

Configurable Parameters

Customized firmware for client's requirements.

Transmission Power Levels

-30, -20, -16, -12, -8, -4, 0, +4 dBm.

Security

- Need password to connect and configure;
- AES HW encryption

Install

- Indoor/Outdoor.
- Lay on desk, Hang on wall, Fix on pole/tree

Working Mode

- Always recharging under sunshine.
- Always scan nearby ble advertising package and report to server by 2G network.

ACTIVATE JW1600

- JW1600 Bluetooth LE Gateway activates once battery having enough power.

CUSTOMIZED FIRMWARE

Item	Default Settings
Server IP(domain) & UDP Port	(provided by client)
Beacon advertising data to filter	(provided by client)
Data format to report to server	(provided by client, see next block for default values)

DEFAULT DATA FORMAT

Type	Data	Direction	Description
0x01	Byte 1~6: Gateway Mac address. Byte 7: Gateway battery level.	Gateway->Server	The first byte is Type, index is 0. The following is gateway mac and the battery level of gateway.
0x02	Byte 1~6: Gateway Mac address. Byte 7~12: iBeacon Mac address. Byte 13: iBeacon Rssi.	Gateway->Server	The first byte is Type, index is 0. The following is gateway mac and the scanned iBeacon mac.

ELECTRONIC PARAMETERS

Item	Value	Remarks
Case Color	Black/White	Customize color if ≥ 500 pcs
Battery Model	Rechargeable Battery	Battery capacity customized.
Operation Voltage	1.8~3.6V	DC
Transmission Current	10.5mA(Max.)	Test at 0dBm transmission power
Transmission Range	50 meters	Maximum
Antenna	50ohm	On board / PCB Antenna
Net Weight	0.7kg	
Size	19.7x19.7x5.5cm	

TECHNICAL SUPPORT

Item	Version	File Name	Update Date
Datasheet	V1.0.1	JW1600_Bluetooth LE Gateway_Datasheet_V1.0.1.pdf	2022-12-19

* Joyway sales team will send you these documents after the sample arrived.

PACKING INFORMATION


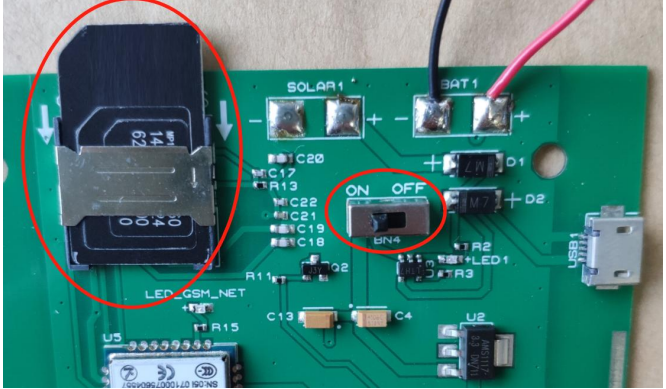
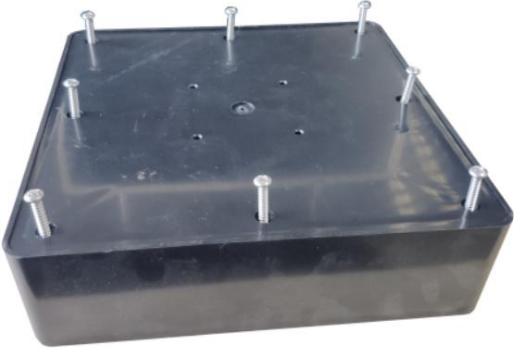

Details	PP Bag	Carton
Quantity(JW1600)	1pc	8pcs
Net Weight	0.7kg	5.6kg
Gross Weight	0.71kg	6kg
Size	19.7x19.7x5.5cm	430mmx210mmx270mm (3#carton)

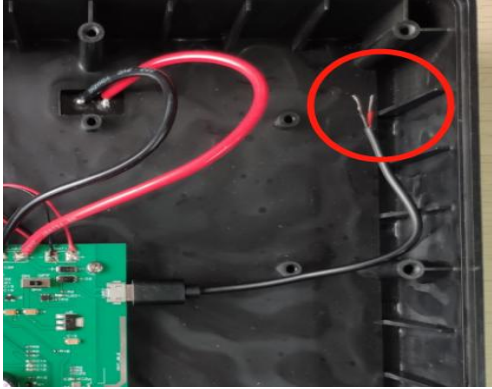
Optional tool for installing on Pole/Wall



HOW TO USE

<p>1</p>	<p>Remove screws, open back cover.</p>	
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	<p>If it is difficult to open back cover, insert a screw in the center hole as handle to help pulling out cover.</p>	
<p>2</p>	<p>Insert sim card, switch on power.</p>	
<p>3</p>	<p>Install back cover, fix it by crews.</p>	
<p>4</p>	<p>Install gateway on pole/wall or place somewhere under sunshine. Determine the angle of the solar panel according to your latitude, and let the sun shine on it as vertically as possible.</p>	

5	Enhance recharge current by adding extra solar panel (or DC supply) to by connect cable. Solar panel should be 5~6V, DC should be 5V voltage.	
6	User Android app 'JoywayIoT.apk' to configure gateway working parameters and upgrade firmware.	

DECLARATION

The contents of this datasheet are subject to change without prior notice for further improvement. Joyway team reserves the right to explain all the terms of this datasheet.

CONTACT JOYWAY

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Last Modified on 2022-12-19.

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