

Bluetooth LE Gateway User Manual

Model: JW1602G4V6

V1.0.1

(Last Modified on 2026-1-7 by Bob Xia)

Model	Description
JW1602G4V6	Bluetooth LE Gateway, 4G LTE network, IP55 waterproof, 220V AC powered, Upload data to server, MQTT, Black color. Led lights.

The Bluetooth LE Gateway JW1602G4V6 is a Bluetooth® Low Energy gateway device, it is designed to scan nearby bluetooth advertising package, can be used for asset tracking, people tracking, pet tracking, sensor data collecting, SOS button signal collecting, etc.

FEATURES

- Standard firmware with open communication protocol.
- -91 dBm sensitivity for BLE.
- Peak current 500mA.
- Idle current 25mA.
- Easy to print the logo



SPECIFICATION

Compatibility

- (1) Compatible with all Bluetooth® 4.0 and above BLE advertising devices.

Power supply

- (1) AC: 100~250V 50/60Hz

Soft Reboot

- (1) Connect gateway by app 'Joyway Beacon' then disconnect to make it reboot.

Soft Reboot, OTA and J-Link

- (1) Support soft reboot;
- (2) Support DFU/OTA;
- (3) Reserved J-Link/SWD port on the board for programming;

Interface

- (1) Led 1: GPS status
- (2) Led 2: 4G network status
- (3) Led 3: Bluetooth status

Configurable Parameters

- (1) Device password
- (2) Server IP/URL, server port
- (3) Network protocol MQTT/TCP/UDP
- (4) MQTT parameters
- (5) Scan filters

Transmission Power Levels

- (1) -20, -16, -12, -8, -4, 0, +4 dBm.

Security

- (1) Need password to connect and configure
- (2) AES HW encryption

Install

- (1) Indoor/Outdoor.

Working Mode

- (1) Always scan nearby ble advertising package and report to server by 4G network.
- (2) Does not scan while connected by tool app 'Joyway Beacon'.

ACTIVATE JW1602G4V6

It start working immediately when connected power source.

CONFIGURE PARAMETERS

Use Android app to configure gateway.

App name: Joyway Beacon


Download link: http://www.joyway.cn/download/android_app/JoywayBeacon.apk

16:08 184 KB/s HD HD 59%

1 devices Scan clear DFU

Name: No adv name

Rssi: -60 dBm

 JW1602G4V6
C4:62:56:11:F9:4D
BLE gateway with 4G network.

CONNECT -74 dBm 4483 ms

16:07 0.37 KB/s HD HD 59%

JW1602G4V6 Save

C4:62:56:11:F9:4D
Firmware publish ID: 38000
Connected

Device password: Show password

Server IP/URL:

Server port:

Protocol type: MQTT ▼

MQTT User Name:

MQTT User Password:

MQTT QoS: 1 ▼

MQTT Keep Alive Time(seconds):

Scan Filter - RSSI(dBm):

Scan Filter - MAC:
(Input MAC format, XX means any hex value.)

Scan Filter - RAW DATA:
Expected values (e.g., 'FF:A4:C3' or 'FFA4C3'):

Value start position (e.g. '0' means the expected values start at the first byte in scanned raw data):

COMMUNICATION PROTOCOL

MQTT			
ID	Topic	Msg Data	Description
1	SE/Gateway Mac/Beacon Mac	Raw adv data	Gateway report scanned advertisement raw data to server.

ELECTRONIC PARAMETERS

Item	Value	Remarks
Case Color	Black	
Power supply	AC: 100~250V, 50/60Hz	
Operation Voltage	5V	DC
Transmission Current	500mA(Max.)	Test at 0dBm transmission power
BLE transmission Range	50 meters	Maximum
Antenna	50ohm	
Net Weight	65 g	
Size	45.5x29x70 mm	Power cable length not included.

PACKING INFORMATION

Details	Small Box	Carton
Quantity(JW1602G4V6)	1 pc	100 pcs
Net Weight	65 g	6.5 kg
Gross Weight	80 g	8 kg
Size	50x34x74 mm	270x190x316mm

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 US

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