

# TagBeacon Datasheet

Model No.: JW1407

V1.0

<b>Model</b>	<b>Description</b>
JW1407-9001A	TagBeacon, waterdrop shape, IP67 waterproof, strong case with 4 screws, 3 years battery life, white/black/blue/pink, includes 1pc CR2477 / CR2450 coin battery, CE & RoHS & FCC-ID certification

The TagBeacon JW1407 is a low energy Bluetooth® 4.2 digital broadcasting device, it is designed for the commercial advertising, indoor location-based service, event monitor, asset tracking etc.

The TagBeacon JW1407 broadcasts standard iBeacon/Eddystone data at regular and adjustable intervals, it can be heard and interpreted by iOS and Android BLE-enabled devices that are equipped with many mobile apps. A BLE gateway can hear and communicate with TagBeacon JW1407 too.

## FEATURES

- Programmed standard iBeacon/Eddystone firmware
- 3 years battery lifetime at default settings
- The max. 50 meters advertising distance
- Small size, user-friendly and portable
- Easy to print the logo on the center of top case
- Paste QR code label on bottom case(MAC address etc.)



## CERTIFICATIONS

- iBeacon MFi License
- RoHS
- CE Regulations (Included EN300328/301489/60950/62479)
- FCC-ID

## SPECIFICATION

JW1407 TagBeacon

### Compatibility

- Supported iOS 7.0+ and Android 4.3+ system;
- Compatible with Apple iBeacon™ standard;
- Compatible with all Bluetooth® 4.2 (BLE) devices;

### Replaceable battery and Battery Level

- Replaceable coin battery;
- Easy to get the real-time battery level notification;

### 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

- UUID, Major, Minor, Device Name, TX power, Transmission interval etc.

- Special Configuration APP 'Joyway Beacon';

### Transmission Power Levels

- 8 adjustable levels
- Transmission power range: -30dBm to +4dBm;

### Security

- No password;
- AES HW encryption

### Wearable

- Key chain / Neck-string option;

### Connection Mode

- Advertising mode, non-connectable;
- Configuration mode, connectable;

## ACTIVATE JW1407

- JW1407 TagBeacon activates once battery is installed. After activated, configure mode last for 30 seconds, then go to iBeacon/Eddystone standard advertising using permanently stored parameters, which will not stop until battery die.
- Reinstall battery to reboot;

## CONFIGURABLE PARAMETERS

Item	Default Settings
UUID	0x59,0x1f,0xcd,0x82, 0xfd,0x55,0x46,0x0b, 0x86,0xd5,0x29,0x6b, 0x1b,0x1e,0x54,0x96
Major	2020~2022
Minor	0~65532
TX Power	0dBm
Transmission Interval	1000ms
Device Name	JOYWAY(advertise device name only in configure mode)

## ELECTRONIC PARAMETERS

Item	Value	Remarks
Case Color	Black/Blue/White/Pink	Customize color if >= 3000pcs
Battery Model	1 x CR2477 / CR2450	1pc CR2477 / CR2450 coin battery, 3.0V
Operation Voltage	1.8~3.6V	DC
Transmission Current	9.5mA(Max.)	Test at 0dBm transmission power
Transmission Range	50 meters	Maximum
Antenna	50ohm	On board / PCB Antenna
Net Weight	17.5g	With battery
Size	49.5x30x13.5 mm	Null

## TECHNICAL SUPPORT

Item	Version	File Name	Update Date
Datasheet	V1.0	JW1407_TagBeacon_Datasheet_V1.0.pdf	30 <sup>th</sup> May, 2022
Instruction	V1.0	JW1407_TagBeacon_Instruction_V1.0.pdf	30 <sup>th</sup> May, 2022
SDK	V1.0	JoywayLib.Android.zip; JoywayLib.iOS.zip	30 <sup>th</sup> May, 2022
Configuration Tools	V1.3.8	JoywayBeacon.apk	30 <sup>th</sup> May, 2022

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

## PACKING INFORMATION

Details	PP Bag	Carton
Quantity(JW1407)	1 pc	200 pcs
Net Weight	17.5 g	3.5 kg
Gross Weight	17.9 g	3.84 kg
Size	60x90x13.8 mm	260x150x180 mm

## 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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