

TagBeacon Datasheet

Model No.: JW1407

V1.0

Model	Description
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)

SIGNAL RANGE

TX Power (dBm)	Rough Range (meters)
+4	50
0	30
-4	14
-8	13
-12	7
-16	4
-20	2
-30	0.3

ELECTRONIC PARAMETERS

Item	Value	Remarks
Case Color	Black/Blue/White/Pink	Customize color if ≥ 3000 pcs
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 th May, 2022
Instruction	V1.0	JW1407_TagBeacon_Instruction_V1.0.pdf	30 th May, 2022
SDK	V1.0	JoywayLib.Android.zip; JoywayLib.iOS.zip	30 th May, 2022
Configuration Tools	V1.3.8	JoywayBeacon.apk	30 th 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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Last Modified at 30th May, 2022

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