TagBeacon Datasheet

Model No.: JW1404BV118

V1.0

Model	Description
JW1404-9001A	TagBeacon, waterdrop shape, IPX4 waterproof, 1 years battery life, white/black/green/pink, includes 1pc CR2032 coin battery, CE & RoHS & FCC-ID certification

The TagBeacon JW1404BV118 is a low energy Bluetooth® 5.0 digital broadcasting device, it is designed for the commercial advertising, indoor location-based service, event monitor, asset tracking etc.

The TagBeacon JW1404BV118 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 JW1404BV118 too.

FEATURES

- Programmed standard iBeacon/Eddystone firmware
- 1 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

CERTIFICATIONS

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

SPECIFICATION

Compatibility
(1) Supported iOS 7.0+ and Android 4.3+ system;
(2) Compatible with Apple iBeacon standard;
(3) Compatible with other Bluetooth low energy devices;

Power supply
(1) Replaceable coin battery;
(2) Advertise battery level in device name;

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) One button;
(2) One RGB led light;
(3) One Buzzer (optional);

Configurable Parameters
(1) Password, Device name, UUID, Major id, Minor id, TX power, Rssi at one meter, Advertising interval.
(2) Configuration APP 'Joyway Beacon';
   More downloads, click me.

Transmission Power Levels
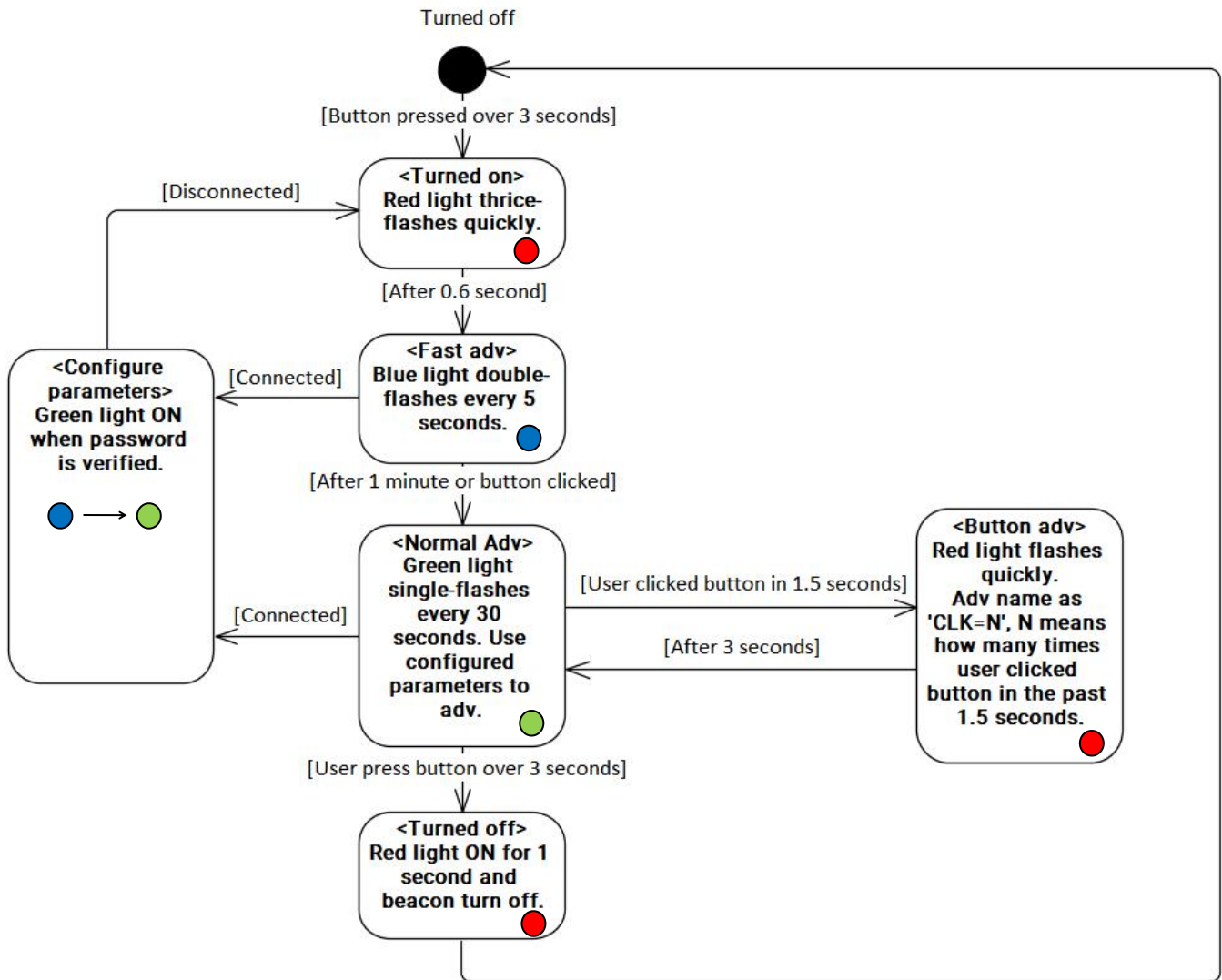(1) available values: -20, -16, -12, -8, -4, 0, +4
(2) unit: dBm

Security
(1) Need password while configuring;
(2) AES HW encryption

Installation
(1) Key chain;
(2) Neck-string;

State Machine

Turned off

[Button pressed over 3 seconds]

\<Turned on\>
Red light thrice-flashes quickly. 🔴

[After 0.6 second]

\<Fast adv\>
Blue light double-flashes every 5 seconds. 🔵

[Connected]

\<Configure parameters\>
Green light ON when password is verified.
🔵 ➔ 🟢

[Disconnected]

[After 1 minute or button clicked]

\<Normal Adv\>
Green light single-flashes every 30 seconds. Use configured parameters to adv. 🟢

[Connected]

[User clicked button in 1.5 seconds]

[After 3 seconds]

\<Button adv\>
Red light flashes quickly.
Adv name as 'CLK=N', N means how many times user clicked button in the past 1.5 seconds. 🔴

[User press button over 3 seconds]

\<Turned off\>
Red light ON for 1 second and beacon turn off. 🔴

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' or Model number

ELECTRONIC PARAMETERS

Item	Value	Remarks
Case Color	Black/Blue/White/Pink	Customize color if >= 3000pcs
Battery Model	1 x CR2032	1pc CR2032 coin battery, 3.0V
Operation Voltage	1.8~3.6V	DC
Transmission Current	4.6 mA (peek current)	Test at 0dBm transmission power
Transmission Range	50 meters	Maximum
Antenna	50 ohm	On board / PCB Antenna
Net Weight	8.5 g	With battery
Size	52x31x11 mm	

TECHNICAL SUPPORT

Item	Version	File Name	Update Date
Datasheet	V1.0	JW1404VB118_TagBeacon_Datasheet_V1.0.pdf	30th May, 2024
SDK	V1.0	JoywayLib.Android.zip; JoywayLib.iOS.zip	30th May, 2022
Configuration Tools	V1.3.8	JoywayBeacon.apk click to download	30th May, 2022

PACKING INFORMATION

Details	PP Bag	Carton
Quantity(JW1404)	1 pc	200 pcs
Net Weight	8.5 g	1.7 kg
Gross Weight	8.9 g	2.04 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

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