## Brief Introduction

Like conventional beacon light, Bluetooth iBeacon repeatedly transmits Bluetooth signal that the other devices could ‘see’. Instead of the visible light, iBeacon broadcasts radio signal that is made up of the combination of ID and the strength of the Bluetooth Signal (RSSI), Bluetooth equipped device can read the contents of this signal once it is in range.

As to RSSI, the closer the Bluetooth receiver is to the transmitter, the stronger the signal strength, and vice versa. The cloud based platform will compare the RSSI between different Bluetooth nodes and calculate the distance between each other.

Bluetooth iBeacon could be used for indoor tracking, positioning, and marketing push in airport,exhibition, shops, hotels, hospitals, and so on.

## C:\Users\Administrator\Desktop\Beacon\未标题-1.png未标题-1Main Features

BLE 4.2 low energy

Ultra low power consumption

3 UUID broadcasts in turn

5 years battery life

150 meters coverage

IP67 waterproof for severe location

Logo and label customizable

## Mechanical Parameters

|  |  |
| --- | --- |
| Model | WH-BCN-BLE-71 |
| Ingress Degree | IP53, or IP67(Glue filling) |
| Case Material | Plastic |
| Case Color | Black or White |
| Dimension | Ø55\*23mm (Including mini installation base) |
| Net Weight | 51g |
| Installation | 3M Tape pasting or Screw fixing |

## Electric Parameters

|  |  |
| --- | --- |
| Static current | <3uA |
| Peak current | 11mA |
| Average current | 66uA (@ 0dBm/500ms) |
| Battery Type | 3.6 V 2400mAH Li-SOCl2 lithium battery |
| Battery life | 5 years (@ 0dBm/500ms) |

## Communication Parameters

|  |  |
| --- | --- |
| Bluetooth type | BLE 4.2 |
| Broadcast power | -30~+4 dbm, 0dbm defaulted |
| Broadcast frequency | 100ms~10s, 500ms defaulted |
| Transmit distance | Max. 80 meters clear line of sight |
| Security | Password connected, or non-connetable |
| Connection mode | -Advertising mode, not connectable  -Configuration mode, connectable |
| Device support | IOS7.0, Android 4.3, Harmony 2.0, and higher version |

## Environment

|  |  |
| --- | --- |
| Work Temperature (℃) | -10(℃)～60(℃) |
| Storage Temperature (℃) | -10(℃)～70(℃) |
| Humidity | 5%～100% |
| Air Pressure (kPa) | 63.0～ 106.0（<4000m） |

## Defaulted Parameters

|  |  |  |
| --- | --- | --- |
| **Item** | **Description** | **Value** |
| UUID | Device ID | FDA50693-A4E2-4FB1-AFCF-C6EB07647825 |
| Major | Main cat. | 10001 |
| Minor | Secondary cat. | 19641 |
| Measured power | Power verification | -59dBm |
| Transmission Power | Radio power | 0dBm |
| Change Password | Password changing | wiihey123 (letter & numbers only) |
| Broadcasting | Broadcast cycle | 500ms |
| Serial ID | Device serial ID | 0-99999 generate by random |
| iBeacon Name | Device Name | 1~12 characters, Wii-iBeacon |
| Connection Mode | Connection available | Yes, or No |
| Soft Reboot | Reboot via software | wiihey123, same as password |
| Battery Service | Remaining battery volume | 1%~100% |

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