

BLE beacon user manual

(Beacon: HOLYIOT-23028)



| | |
|--|----------|
| 1. Introduction | 3 |
| 2. Features | 4 |
| 2.1 Physical characteristics | 4 |
| 2.2 Example of average current data | 4 |
| 2.3 Technical parameters | 5 |
| 2.4 Bluetooth broadcast default parameters | 5 |
| 3. How to use APP"Holyiot-beacon" | 6 |



1. Introduction

HOLYIOT-23028 beacon use Nordic nRF52 series chip, has good performance at ultra-low power consumption, stable Bluetooth, small size and waterproof. It is widely used for indoor location, asset tracking and proximity marketing in different environmental conditions.

Product shape and size:



Application:

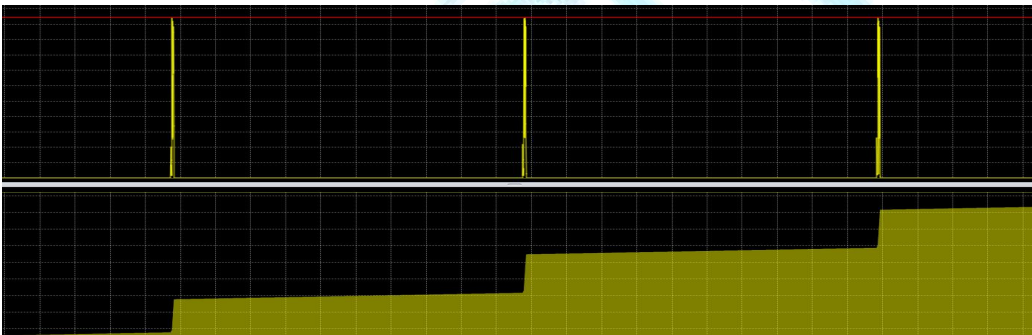
- Proximity Marketing / advertising promotion
- office attendance check in
- Asset tracking / Anti-lost
- Indoor location
- Museum and Hospital

2. Features

2.1 Physical characteristics

| | |
|---------------------|------------------------|
| Product | HOLYIOT-23028-V1.0 |
| Bluetooth version | BLE5.0 |
| Chip | nRF52810 |
| Configure APP | Holyiot-beacon |
| Battery | CR2450 |
| Supply voltage | 2.0V-3.6V (best 3.0V) |
| Frequency range | 2402 MHz ~ 2483 MHz |
| Working Temperature | -20°C ~ 60°C |
| Waterproof level | IP67 |

2.2 Example of average current data



| | 0DB(without accelerometer) | +4DB(without accelerometer) | 0DB(with accelerometer) | 4DB(with accelerometer) |
|--------|----------------------------|-----------------------------|-------------------------|-------------------------|
| 80MS | 225uA | 242uA | 229uA | 246uA |
| 300MS | 65uA | 73uA | 69uA | 77uA |
| 500MS | 40uA | 45uA | 44uA | 49uA |
| 1000MS | 22uA | 25uA | 26uA | 28uA |

Calculation formula for use time:

$$\text{Use time (days)} = 1000 \times \text{battery capacity (mA}\cdot\text{H)} / \text{average current (uA)} / 24\text{H}$$

2.3 Technical parameters

| | |
|----------------------------------|------------------------------|
| Communication and Protocol | Bluetooth5.0 |
| Radio Transmission Power | -96dB ~ +4dB(default:+4dB) |
| Radio Transmission Time Interval | 80mS ~ 1000mS(default:500mS) |
| Wireless transmission distance | 30 - 50 meters |
| Supporting Device | IOS7.0 and Android4.3 above |
| Optional peripheral | Accelerometer chip |

2.4 Bluetooth broadcast default parameters

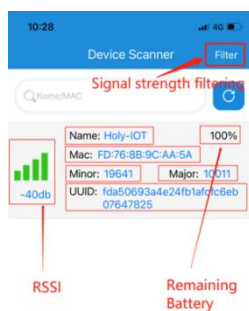
| | |
|----------------------------|--|
| Bluetooth Advertising Name | Holy-IOT |
| Password | AA14061112 |
| UUID | FDA50693-A4E2-4FB1-AFCF-C6EB07647825 |
| Major | 10011 |
| Minior | 10012 |
| TX power | +4dB |
| ADV_interval | 500mS |
| One meter RSSI | -59dB |
| Mac address | The default is the original processor factory parameters |

3. How to use APP"Holyiot-beacon"

1. download APP: search "Holyiot-beacon" or scan the QR code to download.



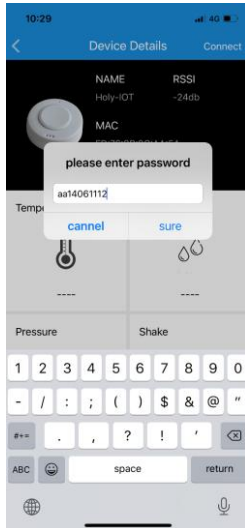
2. turn on the Bluetooth and APP, you can see part of the advertise information of the beacon on the APP;



3. Click to select this beacon to view more advertise information.



4. Click "Connect" , enter password (default: aa14061112).



5. You can see the details and modify the parameters of the beacon;

