New features of the 3.3 version Beacon firmware

Improved Security

Add the brute force prevention measures of the password: Beacon would lock automatically when the input password error consecutive for ten times. The default lock time is half an hour, and the lock time can be dynamic configured up to ten hours.

Add four ways to get the battery information

(1) Using the highest one of Minor value among the Beacon parameters, and regarding the highest Minor value as the battery information. The battery information is divided into 15 levels that is 1-15 (1-F).

(2) Using the highest two of Minor value among the Beacon parameters, and regarding the highest two Minor value as the battery information. The battery information is divided into 100 levels that is 1-100.

(3) Using the UUID, Major, Minor values of the Beacon parameters as the Key, and broadcasting the key and the battery information to outside, which can be received by scanning. The data can be broadcasted twice every 50 seconds.

(4) Using Jaalee Beacon's own ID as the Key, and broadcasting the key and the battery information to outside, which can be received by scanning. The data can be broadcasted twice every 50 seconds.

Connection Time Limit

Limiting the user's connection time, and the longest is within five minutes.

Introduction

Jaalee offers complete indoor Bluetooth BLE solutions for indoor navigation with beacon tag hardware and open Interface to support any indoor navigation deployment. We offer stand-alone tags and services or complete professional services, engineering, and custom beacon tag designs. You can do everything you want without any limit of us. For the development documents matters, please contact us.

JAALEE Beacon is a small BLE device which can be stuck on the items you want to track such as keys, pets, children, toys and so on. You can locate them with your ios devices which support BLE 4.0. The Beacon will alert you with buzz. We offer stand-alone tags and services or complete professional services, engineering, and custom Beacon tag designs.
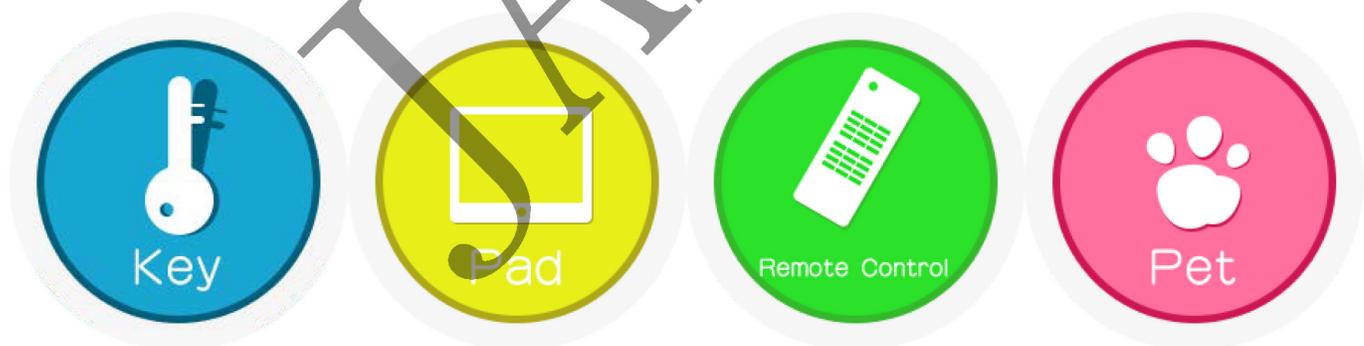
Product Details

Jaalee Beacon is developed and produced based on BLE 4.0 and Beacon has the same housing as Beacon. The Jaalee Beacon module is a circuit board, a built-in battery holder with a coin battery and housing.

It can work as an independent system. CR2450 batteries supply power for Jaalee Beacon. Three different kinds of working modes make best use of the battery power. For developers, we provide the Android and IOS SDK, and our hardware interface developed completely by us, so the developers can develop it without using SDK. For iBeacon agreement, all of the parameters can be reconfigured, including Proximity UUID, Major, Minor and Power. In order to meet different customers' needs, broadcast interval can also be set, which ranges from 100 ms to 10 s. Besides, hardware transmitted power can be configured, configurable range is 4 dBm to -40 dBm. Low cost customizing housing would be provided to potential customers.

JAALEE Beacon is developed and produced based on BLE 4.0. The JAALEE Beacon module is a circuit board, a built-in battery holder with a coin battery

and housing. It can work as an independent system. JAALEE Beacon is power supplied with a button battery.

Three different kinds of working modes make best use of the battery power. For developers, we provide the Android and IOS SDK, and our firmware interface is completely open, so the developers can develop their Apps without SDK. In order to meet different needs of customers, broadcast interval can also be set, which ranges from 100 ms to 10 s. Besides, hardware transmitted power can be configured, configurable range is 4 dBm to -40 dBm. Low cost customizing housing would be provided to potential customers.

Features

- Modes can be switched freely.

- Built-in Beacon firmware. Compatible with BLE.

- Built-in a coin battery (type: CR2450).

- Accurate digital RSSI. Excellent link budget (up to 97dB).

- Enable remote application, AES security coprocessor.

- Ultra wide range transmission power: 4dBm— -40dBm.

- Stable performance and controllable state.

- All hardware interface completely open. Developers do not need to rely on the SDK for development. The requirement of hardware interface can be customized (achieved a certain number).

- All the parameters can be configured (UUID, Major, Minor, Measured Power, TX Power, etc.). Encrypted parameter, a password is needed when access to configure.

- Provide IOS and Android SDK.

- Apple iBeacon certified.

- Support "SLEEP" and "WAKE-UP".

- Support the background management of battery.

Jaalee Beacon Parameter Default Setting

-UUID: EBEFD083-70A2-47C8-9837-E7B5634DF524

-Major and minor identifier: 0x0001, 0x0001

-Default pairing password: 0x666666

-Power Value: 0xCB

-Broadcast Interval: 0x0A

-It can be rang when starting or wake-up.

-The default mode is sleep.

How to Start Using