

# i Beacon Datasheet



BLM5230

Suzhou Beelinker Technology Co.,Ltd

## MODEL NO/DESCRIPTION

|              |                                                       |
|--------------|-------------------------------------------------------|
| Product Name | Large capacity waterproof iBeacon<br>Bluetooth beacon |
| Product Mode | BLM5230                                               |
| Version      | 1.0                                                   |
| Release Date | 2023.8                                                |

## LIST

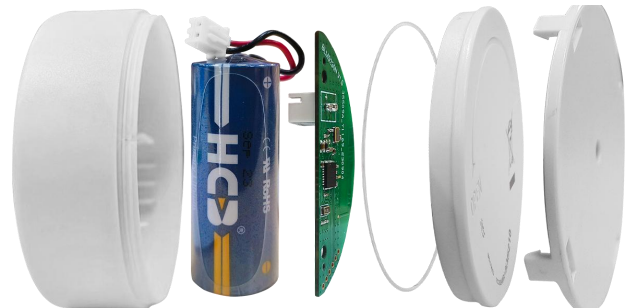
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## 1. Product introduction

Suzhou Bo Lian Technology independently developed a new generation of low-power large-capacity waterproof Bluetooth beacon products for indoor and outdoor scenes, with long standby, waterproof, easy to replace the battery and other features. Nordic nRF52 series Bluetooth low power chip, Bluetooth low power BLE 5.0 technology, in line with iBeacon, Beacon, Eddystone protocol specifications, high security, reliability, support for user connection key Settings. The product selection of round plastic shell, the overall beautiful and durable; The silicone strip and thread rotary sealing process is used to achieve good waterproof effect, which is convenient for customers to choose in different application scenarios.



Product view



Product structure diagram

## 2. Product characteristics

- ★ Ultra-low power consumption for 8 years (0db at 500ms intervals)
- ★ Silicone strip and threaded rotary sealing process, waterproof rating IP67
- ★ Supports iBeacon, Beacon and Eddystone protocols
- ★ Stable and reliable for large-scale applications

### 3. Application

Widely used in outdoor WeChat "shake" around, such as customer advertising, coupons and other precision marketing; tourist attractions, zoos and other intelligent guides, online explanation; car parks, vehicle navigation and positioning; tunnel construction positioning and inspection; petrochemical enterprises, personnel positioning management and other scenarios.



### 4. Physical characteristics

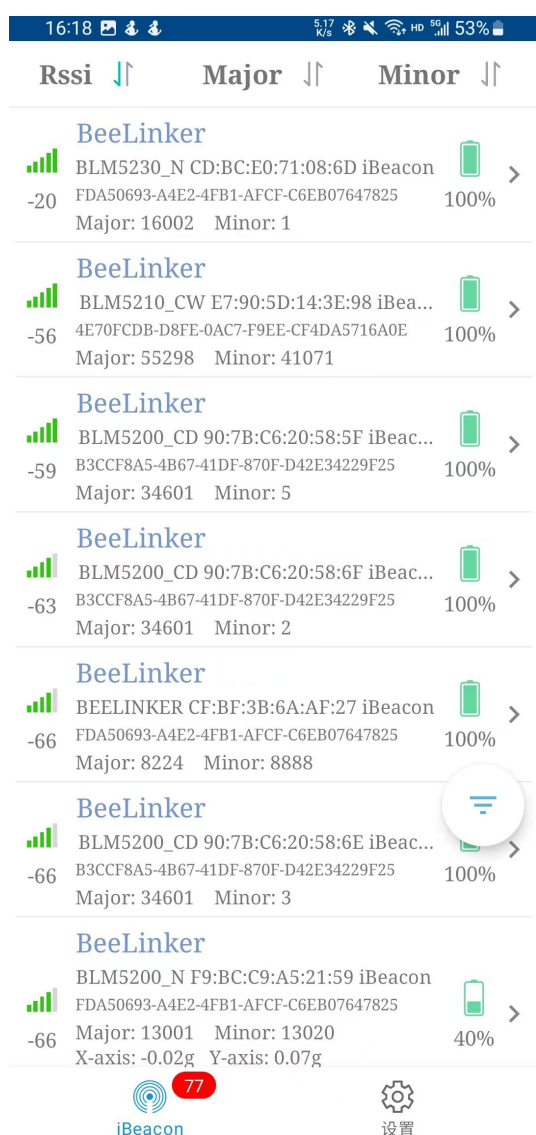
|                                    |                                         |
|------------------------------------|-----------------------------------------|
| <b>Model</b>                       | <b>BLM5230</b>                          |
| <b>Water &amp; Dust Protection</b> | <b>IP67</b>                             |
| <b>Shell material</b>              | <b>PC</b>                               |
| <b>Shell color</b>                 | <b>White</b>                            |
| <b>Overall dimensions</b>          | <b>Φ60.95×24.2mm</b>                    |
| <b>Weight</b>                      | <b>63g(With Battery)</b>                |
| <b>Battery</b>                     | <b>ER18505H (Lithium sub batteries)</b> |
| <b>Supply voltage</b>              | <b>DC3.6V</b>                           |
| <b>Installation</b>                | <b>3M adhesive paste</b>                |

## 5. Specifications parameters

|                                              |                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------|
| <b>Model</b>                                 | <b>BLM5230</b>                                                             |
| <b>Dormant current</b>                       | <b>1uA</b>                                                                 |
| <b>Typical Peak Emission Current (@0dBm)</b> | <b>4.6mA</b>                                                               |
| <b>Receiving peak current typical</b>        | <b>4.6mA</b>                                                               |
| <b>Battery Model</b>                         | <b>ER18505H</b>                                                            |
| <b>Battery Capacity</b>                      | <b>4000mAh</b>                                                             |
| <b>Battery Life</b>                          | <b>8 years (0dBm&amp;500ms)</b>                                            |
| <b>Operation Temperature</b>                 | <b>-40°C ~ 85°C</b>                                                        |
| <b>Frequency of operation</b>                | <b>2.4 GHz Bluetooth</b>                                                   |
| <b>Transmit Power</b>                        | <b>-40~4dBm(Typical 0dBm)</b>                                              |
| <b>Broadcast frequency</b>                   | <b>100ms~4s(Typical 500ms)</b>                                             |
| <b>Transmission distance</b>                 | <b>100m under typical configuration</b>                                    |
| <b>Security</b>                              | <b>Only manufacturer APP links are supported (with communication keys)</b> |
| <b>Application Supported OS</b>              | <b>iOS 7.0 and above, Android 4.3 and above</b>                            |

## 6. Configuration tools

Our company has tools (small program & Android platform APP) that can support the configuration parameters of this product. The configurable parameters include UUID, Major, Minor, transmission power, and transmission interval. The figure below shows the typical configuration interface. If customers have on-site configuration needs, they can consult our technical support.



## 7. Certification information

## 8. Packaging information

| Package  | Outer box (including battery)                                                      |
|----------|------------------------------------------------------------------------------------|
| Packing  |  |
| Quantity | 100 pcs                                                                            |
| Gross    | 6.5kg                                                                              |
| Size     | 465*284*180mm                                                                      |

## 9. Quality assurance

The factory is certified to ISO9001. Every sample will be verified (Transmit power, power consumption, reliable test) before shipping.



## 10. Contact us



The banner features the BeeLinker Technology logo at the top left. To its right are two logos: one with three red stars and a blue 'P' (labeled '国家专利' - National Patent) and another red stylized logo (labeled '高新企业' - High-tech Enterprise). Below these are seven images: a technician at a workstation, a group photo with a BeeLinker banner, a piece of electronic equipment, a technician working on a device, a factory floor, a large electronic test instrument, and a person at a computer. The background of the banner shows a city skyline. At the bottom, contact details are listed.

**B 博联科技**  
BeeLinker Technology

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# Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.