

i Beacon

Datasheet



BLM5710

Suzhou Beelinker Technology Co.,Ltd

MODEL NO/DESCRIPTION

| | |
|--------------|------------------|
| Product Name | Bluetooth device |
| Product Mode | BLM5710 |
| Version | 1.0 |
| Release Date | 2023.5 |

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1. Product Description

The new generation of high-grade protection and high-capacity Bluetooth beacon products independently developed by Suzhou Bollion Technology for indoor and outdoor scenarios, featuring ultra-long standby, high-grade waterproof and impact resistance. TI 26 series low-power Bluetooth chip, low-power Bluetooth BLE 5.1 technology, in line with iBeacon, Beacon, Eddystone protocol specification, high security, reliability, support for the user to connect to the secret key settings. The product selects rectangular high-strength plastic shell, the overall appearance and durability, the use of silicone strips and screws to seal the assembly, convenient for customers to use in special application scenarios.



Product view



Product structure diagram

2. Production Features

- ★ Ultra-low power consumption for 10 years (0db at 500ms intervals)
- ★ Silicone strip and screw sealing process, waterproof rating IP69
- ★ High-strength housing process, supporting IK09 level of impact resistance
- ★ Standard battery holder process for easy battery replacement
- ★ 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. Characteristics

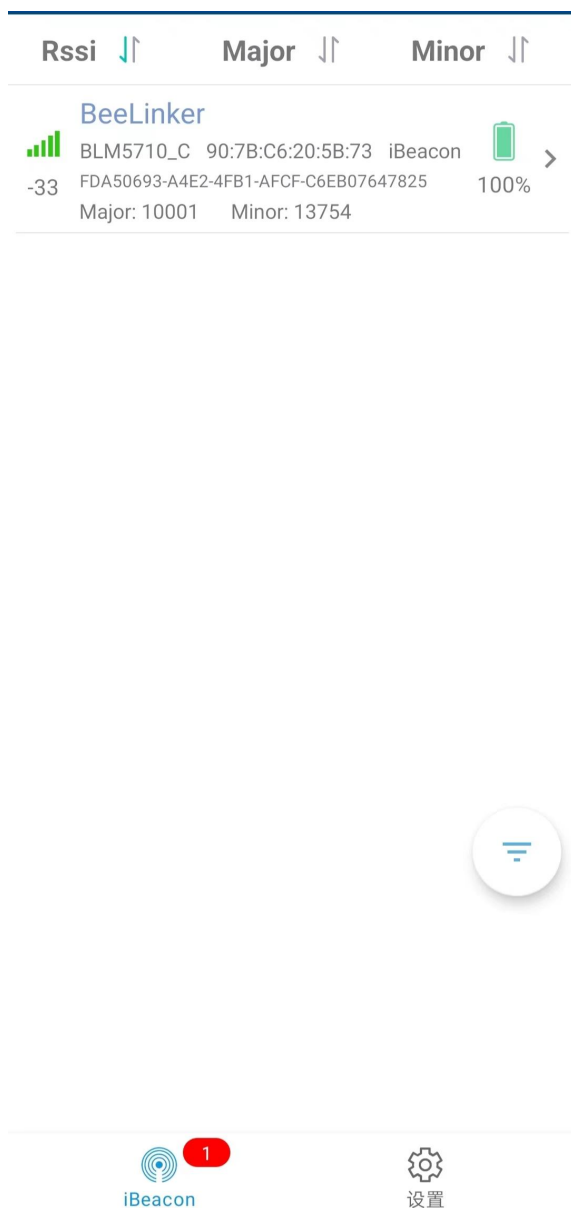
| | |
|------------------------------------|---|
| Model | BLM5710 |
| Water & Dust Protection | IP69 |
| Shell material | ABS |
| Shell color | White、 black |
| Overall dimensions | 91.5mm *51.35mm *24mm |
| Weight | 87.9g(With Battery) |
| Battery | ER14505H(Lithium sub batteries) |
| Supply voltage | DC3.6V |
| Installation | Double-sided adhesive sticking, screw drilling, tie wrapping |

5. Electrical Parameters

| | |
|---|--|
| Model | BLM5710 |
| Quiescent Current | 1uA |
| Typical value of peak emission current (@0dBm) | 6.1mA |
| Receiving peak current typical | 5.9mA |
| Battery Model | ER14505H*2 |
| Battery Capacity | 5200mAh |
| Battery Life | 10 years (0dBm&500ms) |
| Operation Temperature | -40°C ~ 85°C |
| Operation Frequency | 2.4 GHz Bluetooth |
| Transmit Power | -21 ~5dBm(Typical 0dBm) |
| Broadcast Period | 100ms~2s(Typical 500ms) |
| Signal Range | 100m in typical configuration |
| Security | Only supports manufacturer app links (with communication key) |
| Application Supported OS | IOS 7.0 and above, Android 4.3 and above |


6. Configuration Toolkit

Our company has a tool to support the configuration parameters of this product (applet & Android platform APP), the configurable parameters include device name, UUID, Major, Minor, transmit power, sending interval. The following figure is the typical configuration interface, if customers have on-site configuration needs, you can consult our technical support.



7. Certification

8. Package

| Package | Open Carton | |
|----------|--|---------------|
| Packing |  | |
| Quantity | 40 pcs | 80 pcs |
| Gross | 4kg | 7.5kg |
| Size | 232*284*180mm | 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



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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.