

Blueiot RTLS Tag

BT2000-z

User Manual V1.0

blueiot

BlueIoT (Beijing) Technology Co., Ltd

<http://www.blueiot.com/>

Email: global@blueiot.com

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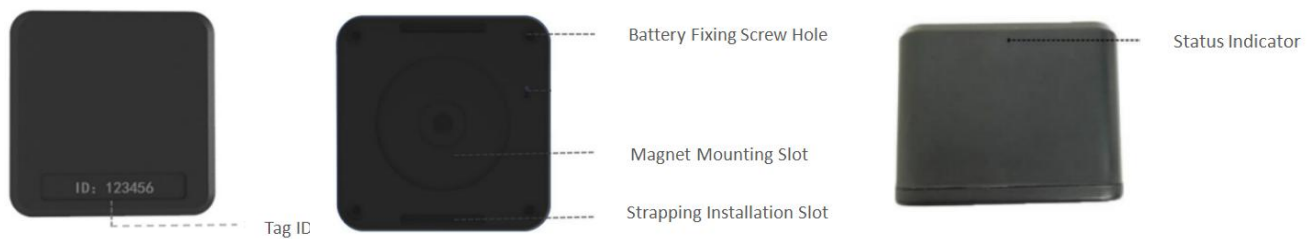
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- The "BlueIoT" series of products (hereinafter referred to as "equipment") provided by our company are management aids, which cannot replace the safety management system, measures and rescue programs of dangerous operations, nor can they replace the supervision system in operation management and measures.
- During the use of this product, please remind the operator not to reduce safety awareness due to the use of auxiliary tools, timely charge the device when the device is low, and regularly check the device. If you have any questions, please contact our company for repair or replacement.

1. Tag Introduction

BT2000-z asset tag is mainly used for the positioning of vehicles, large assets, equipment and so on. It is compact in appearance and easy to operate. With high precision, low power consumption and other characteristics, can be long standby, and the protection level has reached IP67, suitable for harsh industrial scene environment.



2. Screen Display

BT2000-z asset tag uses ER14250 battery, when using, it should be noted that the tag should be in a state of power. The LED indicator on the tag flashes every 5 seconds, indicating the current battery. When the flashing color is green, the power is sufficient, the yellow is medium, and the red is about to run out, and the battery needs to be replaced as soon as possible.

When the power supply of the tag is insufficient, the low power alarm message will be uploaded.

After the alarm is in effect, the LED indicator of the tag will flash in orange, indicating that it is currently in a low power alarm state.

2.1 Battery Replacement

When replacing the battery, you should first remove the back cover of the battery, remove the old battery, put it into the new battery, tighten the back cover and glue the pad, as shown in the following figure.

Warning: please replace the battery after training. BT2000-z uses two ER14250 batteries to supply power in parallel. All batteries should be in the same direction. It is strictly forbidden to put batteries at will regardless of battery polarity. Incorrect use of battery polarity may cause batteries to charge each other and cause explosion! It is strictly forbidden to mix new and old batteries!

2.2 Installation

According to the requirements of the actual use scene, this product can be installed by magnetic, strapping or paste. The battery percentage icon in the status bar indicates the usage of power as follows.

Magnetic Installation: when the surface of the located device is magnetophilic, the tag can be directly attached to the surface of the equipment.

Strapping Installation: when the equipment is tubular or non-magnetic, the strap (to be purchased by yourself) can be used to pass through the special slot of the tag and tied together with the designated equipment.

2.3 Hand Out/Back

To hand out tags, use a card reader to enter the tag ID into the locating system or do it manually, and then location data will be recorded. To hand back, use a card reader to remove the tag ID or do it manually, and then location data will no longer be recorded.

3. Work Mode

3.1 Normal Mode

A tag in the normal mode automatically enters the mode of locating. In this mode, the tag sends a locating signal to the BlueIoT anchor at a default refresh interval of 200 milliseconds. This value can be set on the service configuration software.

3.2 Sleep Mode

A tag in the sleep mode will enter a low power consumption status where the refresh interval for the tag to send locating signals to the anchor will be extended to 10 seconds. When the tag stays static for a time longer than the set value for inactivity, it will automatically switch to the sleep mode; when the tag moves or vibrates, it will immediately get back to the normal mode from the sleep mode. The static time from normal mode to sleep mode is 15 seconds by default, and this value can be set from 1

to 180 seconds in the Server Management Software.

4. Notes

- Do not throw this product into the fire in case of explosion. Do not dismantle the shell of this product at will in case of injury.
- This product uses disposable lithium battery. Replacing the battery requires professional training. Replacing the battery without training may lead to waterproof failure.
- The waterproof grade of this product is IP68. The product can be normally exposed to rain or water, but not with long immersion.
- The parameter data come from BlueIoT Lab, and may vary according to individual differences, usage habits and environmental factors in actual use. Please refer to the actual use.
- If the equipment is working abnormally, please contact the manufacturer and do not disassemble or modify the equipment in any way.

5. FCC Warning statement

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.

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

Information to user. Any Changes or modifications not expressly approved by the party

responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

6. Specifications

Product Name: Blueiot RTLS Tag

Product Model: BT2000-z

Net Weight: 72g

Size: 42mm×42mm×40mm

IP Class: IP67

Frequency Band: 2.4GHz - 2.4835GHz

Operating Temperature: -20 - 70℃

Storage Temperature: -40 - 85℃

Operating Humidity: 10% - 90% non-condensing

Storage Humidity: 5% - 95% non-condensing

Radio Frequency Identification: Built-in RFID

Warranty Information

The warranty period for the host of this product is one year from the date of purchase, during which Blueiot after-sale experts will be responsible for the maintenance under normal use.

Warranty does not apply to:

1、 Damage caused by unauthorized repairing, misuse, collision, negligence, abuse, inflow, accident or modification or alteration.

- 2、 Damage caused by improper use of accessories not for this product.
- 3、 Man-made surface damage, such as scratches, dents and hollows.
- 4、 Damage caused by force majeure.