



云里物里
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Datasheet

Asset tag

Model : MBT02

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1. Brief Introduction

MBT02, a new portable asset tag developed by Minew, can light up or ring. It is equipped with the imported Bluetooth ®5.0 chip, and a 500 mAh battery, which can realize low-power information broadcasting and at least 2 years of battery life. By combining our gateway and V3 management platform, users can realize one-click command operation such as parameter configuration, OTA upgrade and light or ring operation, which helps users to realize tag batch management. In addition, MBT02 also has the function of ringing or lighting, users can conduct relevant commands through the platform, so as to quickly locate the assets in a large warehouse and improve the search efficiency.

2. Key Features

Portable Design

2 Years Service Life

100 m Broadcasting Distance

Sound or Light Reminding

Batch Management Platform

3. Market Applications

Smart Warehouse

Smart Logistic

Smart Office

4. Application Scenarios

Asset Safety Management

MBT02 with an anti-tamper switch, which can be deployed on important assets such as museums and stores to realize asset protection management, so as to reduce the loss of assets. In addition, combined with the Geo-fence technology, once the items with MBT02 tag leave the specified or damaged maliciously, the manager can receive the alarm ,and take actions quickly.

Smart Warehouse Management

MBT02 can be deployed on important assets in the warehouse, shelves, handling tools, etc., with the G1 gateway in the cloud, through the tag management platform to achieve batch product operation instructions. For example, the user can send a light or ring command through the platform, so as to quickly locate the search items and improve the search efficiency.

5. Device Specifications

Basic Parameters	
Item	Value
Material	ABS
Color	White (customizable)
Dimensions (L*W*H)	56*34.5*7.2mm
Weight	17g
Protection	IP65
Battery	CR Button Series, 500mAh
Battery Lifetime	2 years (by default setting)
Chip Model	nRF52 Series
Configuration App	BeaconSET +
Sensors	Accelerometer Optional
OTA	Yes
LED	Red
Operating Temperature	-20℃~60℃

Broadcast Parameters(V3 Firmware)		
Frame	Items	Default Setting
iBeacon (On)	UUID(16bytes)	E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (customizable)
	Major(2bytes)	0 (0-65535, customizable)
	Minor(2bytes)	0 (0-65535, customizable)
	Measured power	-59dBm(0xC5)
	Tx power	0dBm
	Interval(ms)	2000ms
DEVICE INFO (On)	Device Name	MBT02
	Battery Level	By default
	MAC Address	Factory Setting
	Tx power	-8dBm

	Interval(ms)	5000ms
COMBINATION (On)	Tx Power	0 dBm
	Intervals(ms)	5000ms
Password	Password	minew123(by default)
Connectable	Connectable or not	Yes

6. Product Appearance



7. Device Operation

Power-on: press the button for 3 seconds until the red light on.

Power-off: click the “shut-down” command through the platform, the red light will flash 5 times.

Remark: light-up, parameters update, battery information, firmware version, etc., can be conducted or viewed by our platform. Please contact our sales team or technique support team for more operation instructions.

8. Installations

Methods: Double-side adhesive tape

Details:

Double-side adhesive notes:

- **Recommended Installation Environment:** The material surface should be Aluminum, galvanized steel, enamel steel, stainless steel, ceramic, glass/epoxy resin, acrylic, PBT, ABS, PC, hard PVC, etc.
- **Requirements:** No dust on the material surface and clean it before installation. Before

pasting, increasing the viscosity with a hairdryer, or sticking it over half-hours at a reasonable temperature and then pressing for seconds and repeat for better stability.

9. Cautions

- Press button for 3 times sequentially until the blue light shines to turn it on. Turned-off by the shut-down button on the BeaconSET+ APP until the blue light shines times.
- Please do not disassemble the device often so that affect the performance of the anti-tamper button.
- Decreasing the power and increasing the broadcasting interval can extend the lifetime of BLE tags if it is used in a proper environment.
- The device will be shut-down for shipping.
- Please use the device on the suggested working temperature for safety.
- Minew will not be responsible for the damage caused by disassembling the product.

10. FCC Requirement

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

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.

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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

11. Quality Assurance

The factory has already obtained the certification of ISO9001 Quality System. Each product has been strictly tested (testings include transmission power, sensitivity, power consumption, stability, aging, etc.).

Warranty Period: 12 months from the date of shipping (Battery and other accessories excluded).

12. DECLARATION

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Disclaimer

Minew team reserves the right to the final explanation of the document and product differences. The Minew group is not responsible for liability of property or personal injury with the wrong operation if users develop related products without checking the technical specifications of this manual.

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