



MOKO SMART



Product Specification

M12 Tiny Tag

Version 1.0



MOKO TECHNOLOGY LTD.

Revision History

Version	Data	Notes	Contributor(s)
V1.0	July 15, 2026	Initial version	Leo

About document

This **product specification** was designed to help users to know the hardware overview and feature instructions of **M12 Tiny Tag**. Through this document, users will be initial to understand the application scenarios, hardware specifications and basic instructions

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1. Overview

This *Product specification* is mainly applicable for MOKO **M12 Tiny Tag**, and mainly contained below parts:

- [Product brief](#)
- [General specifications](#)
- [Basic instructions](#)

For more information about user guidance of product firmware functions and configuration APP, please contact our sales team directly for other official document.

2. Product brief

The **M12 Tiny Tag**, a compact and portable identification tag powered by Bluetooth Low Energy technology.

A revolutionary BLE tag that combines ultra-lightweight design with exceptional cost-efficiency, redefining the limits of size and affordability.



Figure 1: Appearance overview of M12 Tiny Tag

3. General specifications

3.1 Hardware specifications

Hardware specifications		
Item	Property	Specs
Physical	Dimension	31mm*21mm*2.5mm
	IP rated	IP67
	Color	White
	Installation	Sticker
	Material	TPU
Connectivity	Bluetooth	BLE 5.0
	Maximum Tx Power	+2dBm
	Transmission range*	150m
Hardware	LED	Red
	Battery capacity	CR1616, 50mAh
	Replaceable battery	Not support
	Lifespan (default settings*)	5 months
	Operating temperature	-25°C ~ 55°C

Table 1: Hardware specifications of M12 Tiny Tag

*Transmission range tested in the open area and no obstacles in the route.

*Default settings: 0dBm Tx Power | 3000ms ADV interval | Continuous broadcast

3.2 LED functionality

Here we have described the LED response status in some common situations.

LED response status		
Scenarios	LED color	Response
Power ON	Red	Blinking for 3 seconds
Device connect	Red	Blinking twice
Power OFF	Red	Solid for 3 seconds
Factory restore	Red	Solid for 3 seconds and then device reboot
DFU upgrade	Red	Blinking during DFU upgrade, and solid for 3 seconds after finished, then device reboot
Low battery	Red	Blinking twice every 10 seconds
LED notification	Red	Blinking once --- Trigger mechanism applied

Table 2: LED response status in various situations

4. Basic instructions

4.1 How to power ON/OFF device

Power ON: Long press button for more than 3 seconds, and red LED will **keep blinking** for 3 seconds to indicate device power ON status.

Power OFF: Remote power off device through the configuration APP, and red LED will **keep solid** for 3 seconds to indicate device power OFF status.

4.2 How to restore factory settings

There have two ways to restore factory settings.

➤ **Software reset:** Connect with device through configuration APP and then execute “Reset Beacon” operations to finish the software reset.

➤ **Hardware reset:**

Step1: Keep the device power OFF.

Step 2: Long press the button for more than 10 seconds, during that device will power on and LED start flashing for 3 seconds.

Step 3: After long press duration more than 10 seconds, release the button and then single press the button again within 2 seconds, then device will proceed on factory reset, along with the LED solid for 3 seconds.

Step 4: Device will reboot and LED start flashing for 3 seconds to indicate the factory reset success.

Remark: Software reset won't reset connection password.

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FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference.

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.

RF warning statement:

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

Contact

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