

Product Specification

M13 Industrial Tag

Version 1.1

Revision History

Version	Data	Notes	Contributor(s)
V1.0	April 24, 2026	Initial version	Daniel
V1.1	August 1, 2026	1. Add the description of M13A version.	Daniel

About document

This ***product specification*** was designed to help users to know the hardware overview and feature instructions of ***M13/M13A Industrial Tag***. Through this document, users will be initial to understand the application scenarios, hardware specifications, basic instructions as well as packaging information of product.

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1. Overview

This *Product specification* is mainly applicable for MOKO ***M13/M13A Industrial 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.

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2. Product brief

The ***M13/M13A Industrial Tag*** is a high-performance BLE asset tag engineered for longevity, boasting an impressive battery life of up to 8 years. Built to endure, its superior waterproof and shock-resistant design ensure reliability in the harshest industrial environments.

To streamline different asset tracking situations, the M13/M13A features two different version to applicable for different use cases.

- ***M13/M13A – Standard version*** features a single LED, a built-in buzzer, and RFID integration, making it the go-to choice for typical asset tracking.
- ***M13/M13A – Pick to light version*** features four high-visibility surrounding LEDs and a built-in buzzer, with the transparent housing case, it allows users to pinpoint items instantly through synchronized light and sound.

With flexible mounting options - including high-strength adhesive or screw installation - it is the ideal solution for warehouses, construction sites, and smart manufacturing.

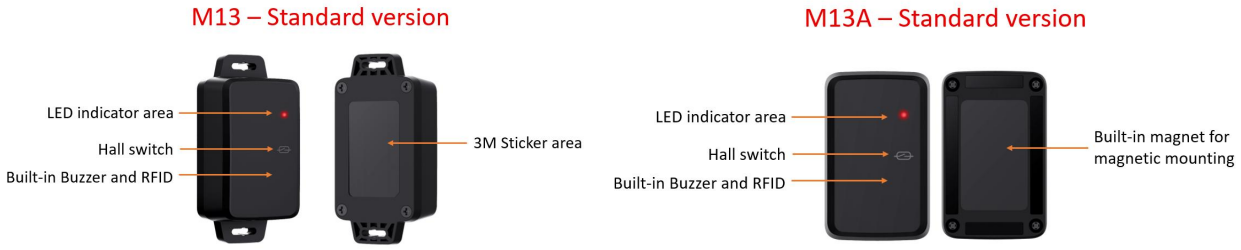


Figure 1: *Appearance overview of M13/M13A Standard version*

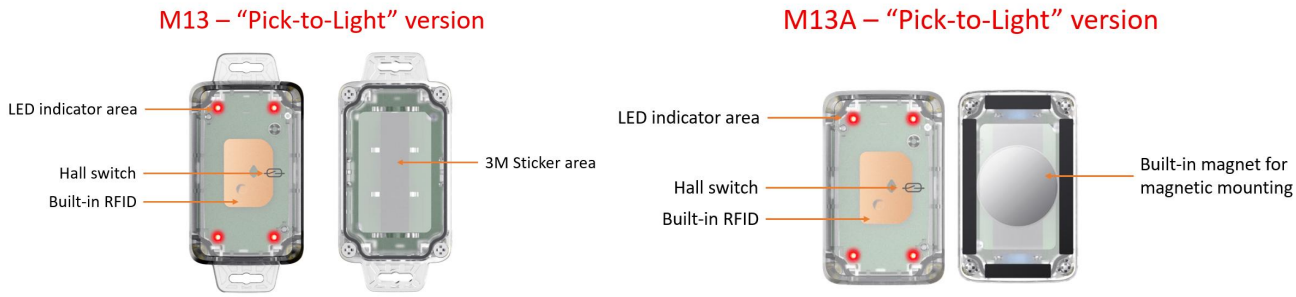


Figure 1: *Appearance overview of M13/M13A “Pick-to-Light” version*

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3. General specifications

3.1 Hardware specifications

Item	Property	M13/M13A - Standard version	M13/M13A – Pick to light version
Physical	Appearance ID		
	Dimension(L*W*H)	M13: 76.1*36.5*25.5mm M13A: 58.5*36.5*27.0mm	
	IP rated	IP67	
	Shock resistance rated	IK06	
	Color	Black	White (transparent)
	Installation	M13: 3M sticker | Screw M13A: 3M sticker | Magnetic mounting	
	Material	PC+ASA	
Connectivity	Bluetooth	BLE 5.0	
	Maximum Tx Power	+6dBm	
	Long range mode*	Supported	
	Transmission range*	150m (Legacy mode) 350m (Long range mode)	
Hardware	Accelerometer sensor	Yes	
	Temperature sensor	Optional	
	Buzzer	Yes	
	RFID	Yes	
	Power on	Magnetic switch	
	LED	1 group of red LED	4 groups of red & green LED
	Battery capacity	2600mAh	
	Replaceable battery	Yes	
	Lifespan (default settings*)	8 years	
	Operating temperature	-20°C / + 60°C	
Regulatory	Certifications	FCC | CE | RoHS | WEEE	

Table 1: *Hardware specifications of M13/M13A*

**Long range mode: It means "coded PHY" advertisement.*

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

**Battery lifespan estimates are based on the default settings without any sensors under 25°C conditions – 1 active slot, 1000ms ADV interval and 0dBm Tx Power.*

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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

Table 2: *LED response status in various situations*

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4. Basic instructions

4.1 How to power ON/OFF device?

The *M13/M13A* do not reserve the external mechanical button, but equipped with hall switch, so you can follow up below steps to power ON/OFF device.

Power ON: Take the magnet to approach to the hall switch positions, hold on for 3 seconds and then red LED will keep blinking for 3 seconds to indicate device power ON status.

Power OFF: Take the magnet to approach to the hall switch positions, hold on for 3 seconds and then red LED will keep solid for 3 seconds to indicate device power OFF status.



Remark: *When M13A equipped with magnet to support magnetic mounting, then the magnetic switch feature will be disabled, and the device will be power ON status when delivery.*

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:***

  Step 1: Keep the device power OFF.

  Step 2: Take the magnet to approach to the magnetic switch positions, hold for more than 10 seconds, during that device will power on and LED start flashing for 3 seconds.

  Step 3: After magnet hold positions for more than 10 seconds, take away the magnet and then approach to magnetic switch 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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Warning Message

>Unless specifically indicated that it is safe to do so in the user guide or instruction manual do not use this device in an environment that exceeds the recommended low or high temperature
>Unless specifically indicated that it is safe to do so in the user guide or instruction manual, avoid exposin g your device to direct sunshine or excessively wet environments.
>The recommended temperature range for devices and accessories is -20°C to 60°C
>Do not use the product in any way other than described herein in order to avoid personal injury or prop erty damage.
>User should comply with the laws and regulations of the corresponding countries and regions where the equipment is used, abide by professional ethics, pay attention to safety obligations, and strictly prohibit the use of our product or equipment for any illegal purposes.Our company will not be responsible for any violators'legal liability under any circumstances.
>Replacing a battery with an incorrect type may bypass safeguards and create danger;
>Disposal of a battery in a fire or other source of significant heat, or by crushing, or cutting, may result in an explosion as well as leakage of flammable liquids and gases;
>Leaving a battery in an extremely hot environment may result in an explosion as well as leakage of flam mable liquids and gases;
>A battery subjected to extremely low air pressure may result in an explosion as well as leakage of flamm able liquids and gases.

FCC Radio Frequency Exposure Statement

The device has been evaluated to meet general RF exposure requirements.The device can be used in fixed/mobile exposure condition.The min separation distance is 20cm.

FCC 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

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

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

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