



MOKO SMART



Product Specification

H8 Identification Tag

Version 1.0

MOKO TECHNOLOGY LTD.

Revision History

Version	Data	Notes	Contributor(s)
V1.0	May 30, 2024	Initial version	Daniel

About document

This **product specification** was designed to help users to know the hardware overview and feature instructions of **H8 Identification 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 **H8 Identification Tag**, and mainly contained below parts:

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

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 **H8 Identification Tag**, a compact and portable identification tag powered by Bluetooth Low Energy technology.

Equipped with handy emergency button and buzzer notifications, cooperate with GPS tracker, it can be used as driver identification tag in the fleet management.



Figure 1: Appearance overview of H8 Identification Tag

3. General specifications

3.1 Hardware specifications

Hardware specifications		
Item	Property	Specs
Physical	Dimension	56.0*36.0*7.3mm
	IP rated	IP65
	Color	Black
	Installation	Lanyard
	Material	ABS
Connectivity	Bluetooth	BLE 5.0
	Maximum Tx Power	+4dBm
	Transmission range*	Up to 150m
	Long range mode*	Not support
Hardware	Sensor	Accelerometer sensor Buzzer (Optional)
	LED	Red
	Battery capacity	220mAh
	Replaceable battery	Yes
	Lifespan (default settings)	1.5 years (Regular broadcasting with 1 second interval)
	Operating temperature	-20°C / + 60°C
Regulatory	Certifications	FCC CE RoHS REACH

Table 1: Hardware specifications of H8 Identification Tag

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

*Long range mode means “Coded PHY advertising mode”.

3.2 Lifecycle estimation

Please refer to documents – “**MOKO Beacon_Battery Lifecycle summary**” for more details on battery lifecycle.

3.3 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

LED response status		
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: Long press button for more than 3 seconds, 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:**

Step 1: 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.

5. Package information

Package information			
Ordering model	Item	Giftbox	Carton box
H8	H8 Device	20pcs/Giftbox	200pcs/Carton
	Lanyard (optional)	Depends on delivery	Depends on delivery
Remark: Lanyard for H8 product is an optional accessory, which is excluded in standard products delivery, and will be packaged separately.			

Table 3: Package information of H8 Identification Tag

6. FCC STATEMENT

1. 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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2. 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.

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance **5mm** between the radiator and your body.

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