

# **Product Specification**

**M6** Industrial Tag

Version 1.0



## **Revision History**

Version	Data	Notes	Contributor(s)
V1.0	Nov 29, 2024	Initial version	Carl

### **About document**

This *product specification* was designed to help users to know the hardware overview and feature instructions of *M6 Series Products*. 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 *M6 Series Products*, which contains:

M6 series products - Overview					
Product model	Use cases	Applicable series firmware	Applicable configuration APP	Battery	Operating temperature
М6А	A cook two skips	BXP-T series	MK Tag	3200mAh (Alkaline)	0° C to 40° C
M6H	Asset tracking			5200mAh (Li-SOCI2)	-20° C to 60° C

**Table 1:** Overview of M6 series products

The product specifications shall be similar and mainly contained below parts:

- Product brief
- > General specifications
- **Basic instructions**
- Ordering information
- Package information

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



## 2. Product brief

The M6, a high-performance Bluetooth asset tracking tag, is designed for industrial applications, offering exceptional structural and installation advantages.

Equipped with a large 5200mAh battery, this product boasts an exceptionally 10+ years lifespan. Additionally, its moderate size allows for easy deployment on a wide range of industrial assets.

With its water-resistant design, unparalleled broadcasting range and longest battery life, M6 tag can be one of the best choices for asset tracking in warehouse, constructions and logistics.





Figure 1: Appearance overview of M6 series products. Front view(left) Side View(right)



## 3. General specifications

#### 3.1 Hardware specifications

Specs	м6А м6Н			
Dimension	97.0 * 53.5 *28.0mm			
Material	PC + ASA			
Shock resistance	IK08			
Waterproof	IP67			
Color		Gray		
Installation		Zip Tie   Screw ounting (Optional)		
Bluetooth		BLE 5.1		
мси	Silicon La	abs BG22 series		
Maximum Tx Power		+6dBm		
Long range mode*	Yes			
Transmission range*	Legacy mode - 150 meters Long range mode – 350 meters			
Accelerometer sensor	Yes			
Magnetic switch		Yes		
Temperature sensor	Optional			
External Flash	Optional			
LED	Red			
Battery capacity	3200mAh (Alkaline)	5200mAh (Li-SOCI2)		
Operating temperature 0° C to 40° C		-20° C to 60° C		
Battery lifespan*	5 years (Alkaline)	10+ years (Li-SOCI2)		
Replaceable battery	Yes			
Certifications	FCC   CE   RoHS   REACH			

**Table 2:** Hardware specifications of M6 series products

#### 3.2 Lifecycle estimation

Please refer to documents – "MOKO Beacon\_Battery Lifecycle summary" for more details on battery lifecycle.

Remark: M6 series products can be applicable for different series firmware, please double check before battery lifecycle calculations.

<sup>\*</sup>Transmission range tested in the open area and no obstacles in the route.

<sup>\*</sup>Long range mode means "Coded PHY advertising mode".

<sup>\*</sup>Battery lifespan estimated based on standard firmware default settings under 25°C conditions.(0dBm Tx Power | 1000ms ADV interval | iBeacon advertisement)



#### 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	
Low battery	Red	Blinking twice every 10 seconds	
LED notification	Red	Blinking once Trigger mechanism applied	

**Table 3:** LED response status in various situations



#### 4. Basic instructions

#### 4.1 How to install device?

#### Multiple adaptive installation



Figure 2: How to install M6 series products?

#### 4.2 How to power ON/OFF device?



The *M6 series products* do not reserve the external mechanical button but with inner mechanical button, and the magnetic switch is an optional equipment, so you can follow up below steps to power ON/OFF device.

**Power ON:** Long press inner button (or take the magnet to approach to the magnetic switch positions if hardware contains the magnetic switch), hold on for 3 seconds and then Red LED will keep blinking for 3 seconds to indicate device power on status.

**Power OFF:** Long press inner button (or take the magnet to approach to the magnetic switch positions if hardware contains the magnetic switch), hold on for 3 seconds and then Red LED will keep solid for 3 seconds to indicate device power off status.

Remark: If the product does not have the magnetic switch icon, then it means that this product does not contain the magnetic switch, and you will need to power on/off device through the inner button.



#### 4.3 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 ON.
- **Step 2:** Long press inner button (or 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 Long press inner button (or take the magnet to approach to the magnetic switch positions) for more than 10 seconds, release button (or take away the magnet) and then single press button (or 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.

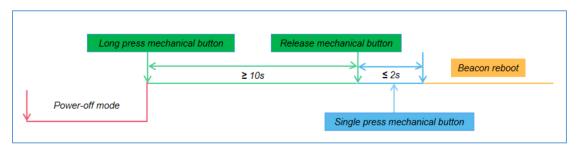


Figure 3: How to reset M6 Series Products

**Remark:** Software reset won't reset connection password.

#### 4.4 How to replace battery



Figure 4: How to replace the battery of M6 series products



## 5. Ordering information

Ordering model	3axis-Acc sensor	Magnetic switch	Battery	Product ID
M6A-T(SL)AA-HA	Yes	Yes	Alkaline	
M6H-T(SL)AA-HA	Yes	Yes	ER14505	



# 6. Package information

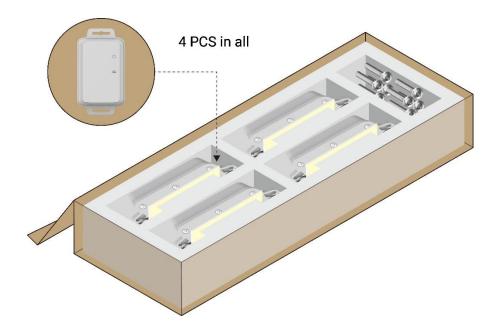


Figure 5: Packaging information of M6

Package information				
Ordering model	Item	Giftbox	Carton box	
	M6 Device	4pcs/Giftbox	10pcs/Carton	
M6 series	3M sticker	4pcs/Giftbox	10pcs/Carton	
	Screw (package unit)	4pcs/Giftbox	10pcs/Carton	

**Table 4:** Package information of M6 series products



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