



MOKO SMART



Product Specification

B6/B6N Rechargeable Badge

Version 1.1

Revision History

Version	Data	Notes	Contributor(s)
V1.0	April 24, 2026	Initial version	Daniel
V1.1	May 12, 2026	1. Revise the full charging time.	Daniel

About document

This **product specification** was designed to help users to know the hardware overview and feature instructions of **B6/B6N Rechargeable Badge**. Through this document, users will be initial to understand the application scenarios, hardware specifications, basic instructions as well as packaging information of product.

Table of Contents

1. Overview	3
2. Product brief.....	4
3. General specifications.....	5
3.1 Hardware specifications	5
3.2 Lifecycle estimation	6
3.3 LED functionality.....	6
4. Basic instructions	7
4.1 How to power ON/OFF device	7
4.2 How to check the charging status.....	7
4.3 How to restore factory settings?.....	7
5. Package information.....	8

1. Overview

This *Product specification* is mainly applicable for MOKO **B6/B6N Rechargeable Badge**, which 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 **B6/B6N Rechargeable Badge** is a compact Bluetooth Low Energy(BLE) wearable badge.

It built on the Bluetooth 5.0 standard, delivers real-time location tracking, remote reminder and alerts response can also be achieved to interact with the varied LED notification and buzzer mechanism, thus realizing the Geo-fence alerts and restriction entrance alerts.

B6 features magnetic charging, a buzzer, a button, and a RGB LED indicators that provide instant visual feedback to the user. Independent button to achieve SOS or self-defined services.

B6N features magnetic charging, a buzzer, and a RGB LED indicators that provide instant visual feedback to the user. With its special **no-button design**, it can be used to prevent the users to interact with the device to avoid the mismatch operations.

With its durable construction and versatile functionality, it could be widely used in schools, hospitals, hotels, construction sites, smart offices and more.



Figure 1: Appearance overview of B6



Figure 2: Appearance overview of B6N

3. General specifications

3.1 Hardware specifications

Item	Property	B6	B6N
Casing	ID Appearance		
	Dimensions (L*W*H)	45.0*60.0*7.5mm	
	Material	PC+ABS+TPU	PC+ABS
	Waterproof	IP65	
	Color	White (Body) Red (Button)	White
	Mounting	Lanyard	
	Power on	Soft-rubber button	Power on always due to “no button” design
Connectivity	Bluetooth	BLE 5.0	
	Maximum Tx Power	+4dBm	
	Long range mode*	Not support	
	Transmission range*	150m	
Hardware	Accelerometer	Yes	
	RFID/NFC	No	
	Buzzer	Yes	
	LED	Red Green Blue	
	Battery capacity	350mAh	
	Replaceable battery	Rechargeable battery	
	Lifespan (default settings)	Advertising mode*: 6 months per charging cycle Long connection mode*: 2 months per charging cycle	
	Charging time	Approx. 4 hours (under 25°C conditions)	
	Batch charging	Supported (20pcs per charging station)	
	Operating temperature	-20°C / +60°C	
Regulatory	Certifications	FCC CE RoHS WEEE	

Table 1: Hardware specifications of B6/B6N

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

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

*Advertising mode: The lifetime is estimated based on advertising mode and broadcasting in a non-connected state under 25°C conditions (0dBm Tx Power | 1000ms ADV interval | Continuous broadcast | No accelerometer sensor).

*Long connection mode: The lifetime is estimated based on the smartphone/gateway maintaining a long connection under 25°C conditions

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	Green	Blinking for 3 seconds
Device connect	Green	Blinking twice
Device full charged	Green	Keep solid
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
Device on charging	Red	Keep solid
Remote LED notification	Blue	Blinking once
Dismiss alarm notification	Blue	Configured by user
Button trigger notification	Blue	Blinking for 1 second

Table 2: LED response status in various situations

4. Basic instructions

4.1 How to power ON/OFF device

➤ B6 rechargeable badge

Power ON: Long press button for more than 3 seconds, and green 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.

➤ B6N rechargeable badge

Power ON: Due to the “no-button” design, B6N will keep power ON status in standard firmware. If the device powered off due to out of battery, it will be powered on automatically after the device on charging process.

Power OFF: Cannot be powered off.

4.2 How to check the charging status

Device on charging process: Red LED will keep solid.

Device full charged: Green LED will keep solid.

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. **(Applicable for B6 and B6N)**

➤ **Hardware reset: (Only applicable for B6)**

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

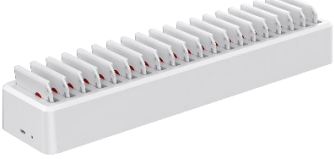
Model	Package information	Carton box
B6	1*B6 Device	250pcs/Carton
	1*Charging cable (Pogo pin)	250pcs/Carton
B6N	1*B6N Device	250pcs/Carton
	1*Charging cable (Pogo pin)	250pcs/Carton
Charging station kit		This charging station compatible with USB-C connector or DC connector power supply and it can support 20pcs devices charging at the same time, and the kit will include: 1. Charging station 2. USB-C cable (without adapter) Remark: Charging station kit is an optional accessory which is excluded in standard products delivery. You can contact with our sales team for more information.
Lanyard		Remark: Lanyard is an optional accessory which is excluded in standard products delivery. You can contact with our sales team for more type of lanyard accessories.

Table 3: Package information of B6/B6N

© Copyright 2026 MOKO TECHNOLOGY. All Rights Reserved. Any information furnished by MOKO TECHNOLOGY LTD. is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of MOKO TECHNOLOGY LTD. materials or products rests with the end user since MOKO TECHNOLOGY LTD. cannot be aware of all potential uses. MOKO TECHNOLOGY LTD. makes no warranties as to non-infringement nor as to the fitness, merchantability, or sustainability of any MOKO TECHNOLOGY LTD. materials or products for any specific or general uses. MOKO TECHNOLOGY LTD. or any of its affiliates shall not be liable for incidental or consequential damages of any kind. All MOKO TECHNOLOGY LTD. products are sold pursuant to the MOKO TECHNOLOGY LTD. Terms and Conditions of Sale in effect from time to time, a copy of which will be furnished upon request. Other marks may be the property of third parties. Nothing herein provides a license under any MOKO TECHNOLOGY LTD. or any third-party intellectual property right.

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. 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

MOKO TECHNOLOGY LTD. An original manufacturer for IoT smart devices

Address: 4F, Building 2, Guanghui Technology Park, MinQing Rd, Longhua, Shenzhen, Guangdong, China

E-mail: Support_BLE@mokotechnology.com

Website: www.mokosmart.com

www.mokoblue.com