



MOKO SMART



Product Specification

N1 Stamp

Version 1.0

Revision History

Version	Data	Notes	Contributor(s)
V1.0	Jan 24, 2024	Initial version	Leo

About document

This **product specification** was designed to help users to know the hardware overview and feature instructions of **N1 stamp** product. 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 **N1 stamp** product, and mainly contained below parts:

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

2. Product brief

Thin, Lite and Unobtrusive!

The N1 Stamp is a small form factor BLE tag. With breakthroughs in cost, distance and sustainability, this tag shall be the best choice for medical equipment tracking, shopping cart tracking and other asset tracking in various scenarios.

In addition, the N1 Stamp product supports extended temperature sensor, which can be applied to the environment temperature monitoring scenarios such as fresh fruits and offices.



Figure 1: Appearance overview of N1 stamp

3. Application scenarios

Healthcare

- Medical equipment usage frequency monitoring
- Asset theft prevention
- Faster positioning of medical equipment in emergency.
- Automate inventory counts



Asset environment

- Shopping cart tracking and real-time queue prediction
- Asset ambient temperature monitoring
- Reliable shoplifting prevention



Smart Office

- Office Furniture & Equipment tracking (Desk, Chairs, Photocopier)
- Asset presence detection for theft prevention
- Automate inventory counts



4. General specifications

4.1 Hardware specifications

Hardware specifications	
Bluetooth	Bluetooth 4.2
Connectivity	Unconnectable
Dimension	36.5mm x 23.5mm x 4.7mm
Transmission range	Up to 160 meters
Material	ABS
Waterproof	Tolerate wiping with wet cloth but not immersion into water
Color	White
Installation	Sticker
Button	N/A
Operating temperature	-20°C / + 60°C
Storage temperature (Recommend)	-20°C / + 60°C (without battery) 10°C / + 25°C (with battery)
Operating Humidity	0% ~ 95% (non-condensing)
Antenna type	PCB onboard
Power supply	Coin cell battery CR2016 85mAh Replaceable
Sensor Spec	Supports extended temperature sensors ● Temperature Accuracy : $\pm 1^{\circ}\text{C}$ ● Temperature range : -20 ~ 60 $^{\circ}\text{C}$
Battery life	● 18 months (Without Temperature sensor - 1 active slot, 5000ms ADV interval, 0 dBm Tx Power) ● 9 months (With Temperature sensor - 1 active slot, 5000ms ADV interval, 0 dBm Tx Power)

4.2 Default Parameter settings

Software configurations		
Type	Items	Default settings
Supported Adv frame	Apple - iBeacon Eddystone (UID/TLM) Customized frame -- Sensor info	Configurable
Default Adv slot	Default adv slot settings	
Default PHY	Default PHY settings	1M PHY
Slot 1 – Sensor info	Tag ID	[Mac address]
	Tx power	0dBm
	Adv interval	5000ms
Note: The broadcast parameters of the device can be configured only before the device leave the factory, and cannot be configured again after the device leave the factory		

5. Basic instructions

5.1 How to wear/install N1?



Figure 2: How to wear/install N1?

5.2 How to power ON N1?

To minimize the size of product as much as possible and suitable for various scenarios, as well to avoid intentional power off actions, the N1 stamp has no reserved mechanical button design. Therefore, we have added “mylar film” to simply power on device.

➤ **Power ON:** Take the “mylar film” out, and the device will start broadcasting.

5.3 How to replace battery?

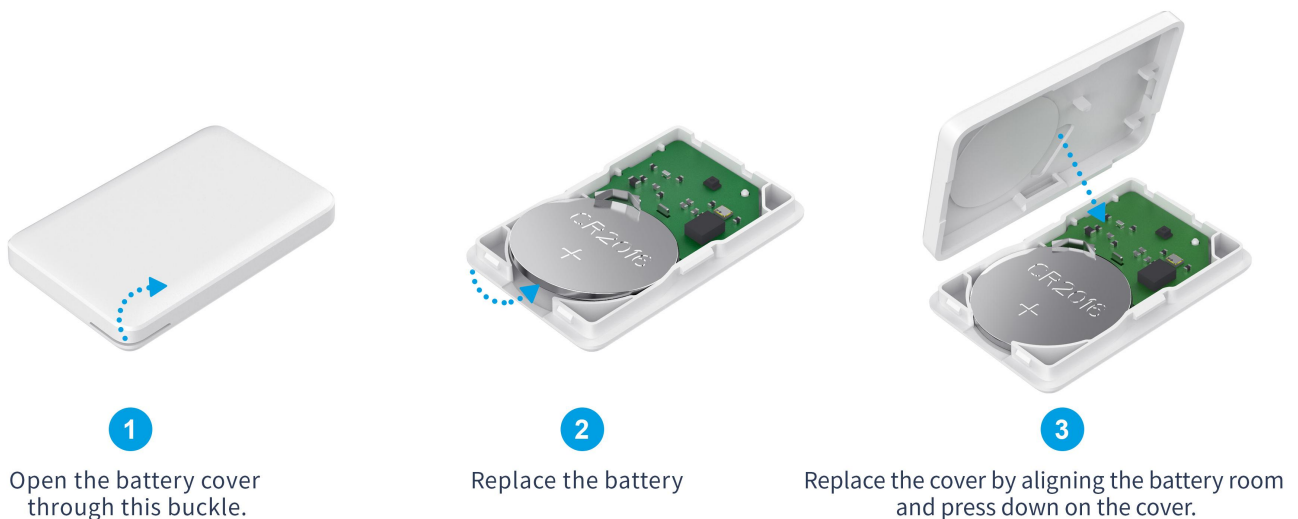


Figure 3: How to replace the battery of N1?

6. Package information

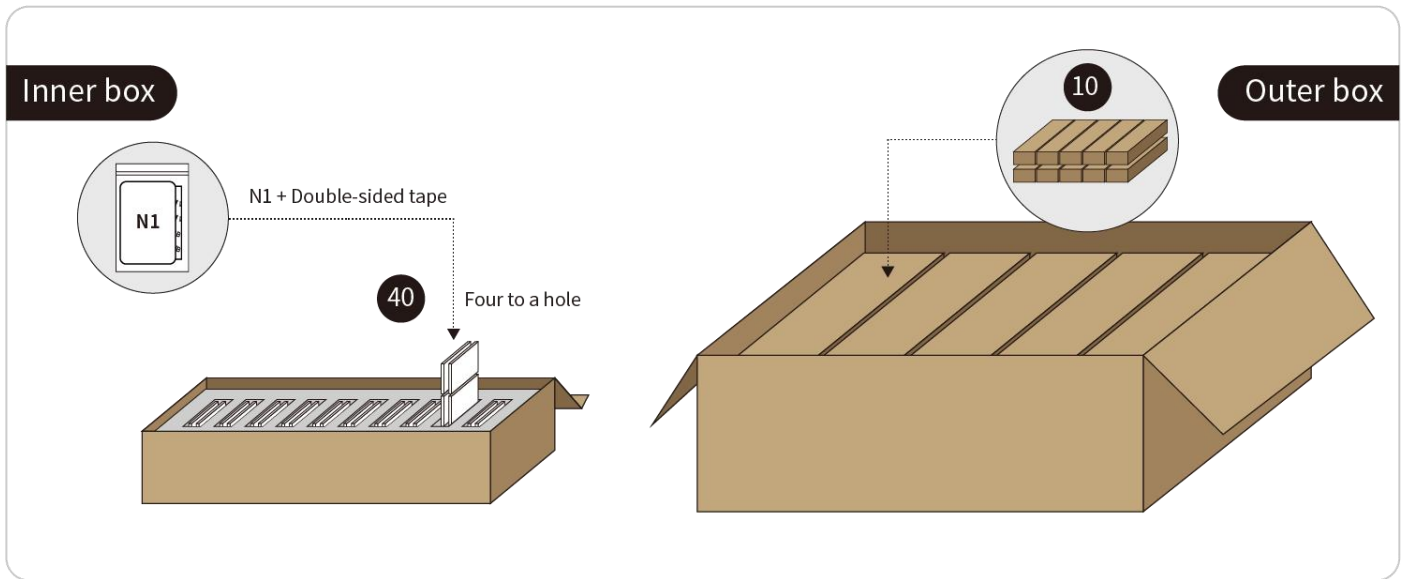


Figure 4: Packaging information of N1

Package information		
Item	Inner box	Carton box
Quantity (N1 device)	40pcs/box	400pcs/carton
Quantity (3M sticker)	40pcs/box	400pcs/carton
Size	306*109*72mm	590*320*160mm

Table 1: Package information of N1

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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 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 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.

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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