

NIS
ELEKTRONIK

NBT-2

Asset Tag

Datasheet



PRODUCT OVERVIEW

The NBT-2 is a portable Bluetooth® LE positioning tag developed by NIS mainly for asset management. It is slick and slim which can be flexibly installed on various assets. While capable of broadcasting up to 85 m, it is perfectly suitable for asset management in museums, warehouses, exhibitions, and commercial complexes.



KEY FEATURES



Cost- effective



85 m broadcast
transmission
distance



Dual-channel
broadcast



Easy installation,
replaceable battery



Portable design

MARKET APPLICATIONS



Asset Management

The NBT-2 is lightweight, and cost-effective that is ideal to be deployed in scenarios, such as warehouses, logistic transportation and stores.

Customers can determine the location and vacancy status of various assets in venues along with related technologies, to achieve efficiency and balance resource management.

Note: Application cases above are only as a reference, more applications realized are based on users' software algorithm ability.

PRODUCT SPECIFICATIONS

BASIC SPECIFICATIONS

Material	ABS
Color	White
Size (L * W * H)	5.3 * 5.3 * 1.2 mm
Weight	8 g (battery included)
Battery type	1 CR battery
Battery capacity	230 mAh
Battery life	1-3 years (based on settings)
Sensor	/
LED	/
Button	/
OTA	Not supported
Information view app	BeaconSET or BeaconSET+

Note: BeaconSET or BeaconSET+ can only be used to view the broadcast information, not to connect to the device.

TECHNICAL SPECIFICATION

Bluetooth® version	Bluetooth® LE 5.3
Broadcast power	Options: -20, -16, -11, -7, -3, 0, 3 dBm Default 0 dBm
Broadcast interval	100 ms ~ 10 s, default 2000 ms
Broadcast distance	85 m (open space)
Working temperature	-20°C ~ 60°C
Storing temperature	20°C ~ 35°C
Security	Non-connectable mode, data cannot be altered

BROADCAST SPECIFICATIONS

Type / channel	Item	Default settings
iBeacon (Activated by default)	UUID (16 bytes)	E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (configurable)
	Major (2 bytes)	0 (0 - 65535, configurable)
	Minor (2 bytes)	0 (0 - 65535, configurable)
	Measured power	-59 dBm (0xC5)
	Tx power	0 dBm
MBeacon INFO (Activated by default)	Interval (ms)	2000 ms
	Device name	NBT-2
	MAC address	Assigned before shipment.
	Tx power	0 dBm
	Interval (ms)	4000 ms





Note: ①The product only supports 2 broadcast frames, which can be selected from iBeacon, MBeacon INFO, UID, URL, and TLM, and the broadcast power must be consistent.
 ②The parameters of the finished product need to be determined at the time of production. Once programmed into the chip, the parameters cannot be modified.

SUPPORT SYSTEMS

SUPPORTED MODELS

iOS 10.0 and above	iPhone 11 /11 pro /11 pro max, iPhone 12 /12 pro /12 pro max, iPhone 13 /13 pro /13 pro max, iPhone 14 /14 pro /14 pro max, iPhone 15 /15 pro /15 pro max etc.
Android 4.3 and above	LG, Samsung, Xiaomi, Huawei, Honor, OnePlus, Google Pixel, etc.

DEVICE OPERATIONS

-  **Power on**
Unplug the insulating sheet, and the device starts to work.
-  **Shutdown**
Remove the battery.
-  **Battery check**
The product has no indicator light, and the battery power information can be judged by the voltage information in the MBeacon INFO frame.
-  **Broadcast viewing**
Check whether the device is broadcasting or not by BeaconSET or BeaconSET+ App.

PRECAUTIONS

- * After the product is powered on, it will be in broadcast mode and cannot be connected.
- * All firmware information will be done during the manufacturing stage.
- * To extend the battery life if needed, it is recommended to choose a low broadcast power and a long broadcast interval at the manufacturing stage.
- * The product might be damaged if using over the normal operating temperature.
- * Please avoid direct sunlight for an extended period to avoid aging of the shell when in use.
- * NIS will not be responsible for any damage resulting from disassembling manually.



INSTALLATIONS

Double-side adhesive tape

- * **Recommended Installation Environment:**
The surface should be smooth and dry, such as ceramic, glass/epoxy resin, acrylic, PBT, ABS, PC, hard PVC.
- * **Requirements & Steps:**
Before pasting, the surface should be clean. When pasting, press the beacon with double-sided tapes for 5 seconds and repeat.
- * **Common Deployment Scenarios:**
Surface to be installed such as office walls, glass window & door, desk, wood, tile.

Please contact our sales team or technical support team if any deployment questions.

PACKAGING

	Internal carton (battery included)	External box(battery included)
Picture		
Units	80 pcs	800 pcs
Sizes	30.5 x 11 x 7.2 cm	32 x 23.5 x 40 cm
Gross Weight	602 g	6.5 kg

QUALITY ASSURANCE

Each product has been strictly tested (tests include transmission power, sensitivity, power consumption, stability, aging, etc.).
Warranty Period: 12 months from the date of shipping (Battery and other accessories excluded).

DECLARATION

Statement of Rights:

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Disclaimer :

NIS team reserves the right to the final explanation of the document and product differences. And it is not responsible for liability of property or personal injury with the wrong operation if users develop related products without checking the technical specifications of this manual.

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