

NFC Beacon

FSC-BP1000DN Product Manual



1. Product Introduction

FSC-BP1000DN uses flexible paper process, is lightweight and simple, and can be installed flexibly, supporting placement and sticking. It is developed based on a low-power Bluetooth chip, with high stability and ultra-low sleep power consumption. It is a long-standby Bluetooth low-power device suitable for personnel management, asset management, and other scenarios.



Figure 1: FSC-BP1000DN physical image

2. Features

- Supports NFC switch function
- Uses a Bluetooth low-power series chip, with stable performance and ultra-low power consumption

3. Applications

- Supports normal Beacon functionality
- Asset location management

4. Product parameters

Item	Description	
Color	White or customized	
Size	80*60*2mm	
Net weight	10g	
Power Supply	Flexible batteries	
Battery capacity	35mAh	
Supply voltage	3.0V DC	
Battery Life	2 Year	
Communication protocol	BLE 5.1/ NFC ISO/IEC14443-A	
Transmit power	-19.5~+2.5dBm, Default 0dBm	Optional
Broadcast Interval	100ms~15s, Default 10s	Optional
Advertising Distance	Up to 50m (open area)	
Operating temperature	-30°C~60°C	
Operating humidity	20~ 90 %RH	
Firmware Upgrading	Support	

5. Operation Instructions

(1) Installation method: Stick or place the beacon on the personnel or asset.

(2) Power on/off:

a. Power on: Turn on the NFC function on an Android phone, and touch the NFC sensing area for 3 seconds to turn on the beacon and start broadcasting.

b. Power off: Touch the NFC sensing area again for 3 seconds to turn off the beacon.

6. Battery Life & Cover Range Estimation

Tx Power (dBm) Advertising Interval (ms)	-19.5	-7	-3.5	0	2.5
100	66	56	50	45	40
200	121	105	98	85	76
400	206	183	175	149	138
1000	376	344	316	292	273
1300	431	395	374	348	328
5000	684	668	648	636	585
7000	736	718	704	694	678
10000	796	771	763	744	725

Notes: Battery life in **days** when (35 mAh, see reference photo down below). These values are tested or estimated in the laboratory, the battery life might be different in different environments or conditions.

7. Dimensions



Figure 2: Product size diagram

8. Disclaimer

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10. Revision History

Date	Version	Changes	Author
2024-09-04	V1.0	Initial Release	Rongzhu Lu