



MINEW MWC01 Bluetooth Rechargeable Badge User Manual

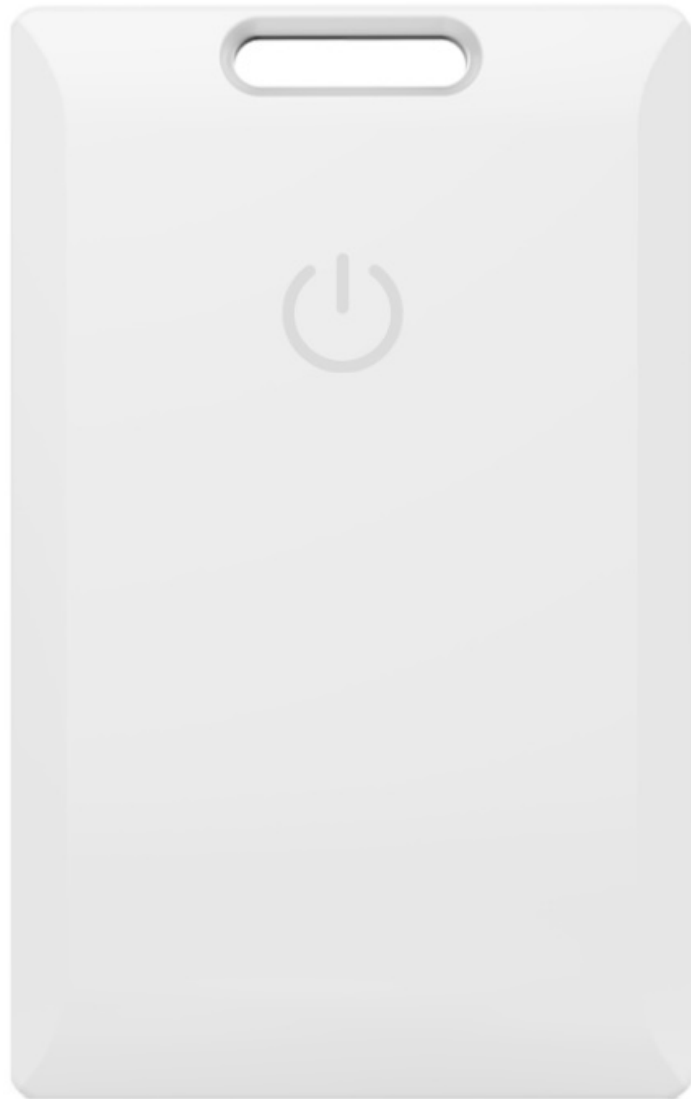
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MINEW MWC01 Bluetooth Rechargeable Badge



Product Information

The MWC01 is a rechargeable badge created by Minew for personnel management. It is designed for check-in/out and flow monitoring purposes. The badge features a magnetic charging port, making it easy to recharge. It also includes an external button and a vibration motor, which are friendly to the visually impaired and can be used for first aid or status reports.

Key Features

- Smart magnetic charging
- Visual or auditory disability-friendly with vibration motor
- Multiple RFID frequencies
- 492 ft (150 m) broadcast distance

Market Applications

The MWC01 badge can be widely used in various applications, including:

- Personnel management in museums, aquariums, and other large indoor places
- Smart office check-ins, personnel flow monitoring, and route tracing

Product Specifications

Basic Specifications:

- Body material: ABS + PC
- Color: White
- Size (L * W * H): 86 * 55 * 6 mm
- Weight: 19 g (without accessories)
- Battery: 1 rechargeable battery, 290 mAh
- Charging time: Approximately 2 hours at room temperature with a 5 V/1 A power adapter
- Battery life: Up to 3 months (depending on usage)
- Sensor: Accelerometer
- Button: 1
- Vibration motor: 1
- LED: 1 RGB light
- RFID: LF/HF/UHF optional
- OTA: Supported
- Configuration App: BeaconSET+

Technical Specifications:

- Chip: Bluetooth version
- Broadcast frequency: 100 ms ~ 5 s
- Broadcast distance: Up to 492 ft / 150 m (open area)
- Working temperature: -20°C ~ 60°C
- Security: Password verification to change settings, restart, non-connectable mode, malicious connecting proof supported

Broadcast Specifications:

(Default settings)

- iBeacon (on)
- UUID (16 bytes): E2C56DB5-DFFB-48D2-B060-D0F5A71096E0 (configurable)
- Minor (2 bytes): 0 (configurable)
- Measured power: -59 dBm (0xC5) @1 m
- Tx power: 0 dBm
- Interval: 900 ms

Compatibilities:

- Supported systems: iOS 10.0 and above, Android 4.3 and above
- Supported models: iPhone 6/6 Plus/6S/6S Plus/7/7 Plus/8/8 Plus/X/XR/XS/XS Max/SE/SE2/11/11 Pro/11 Pro Max

Product Overview

MWC01 is a rechargeable badge created by Minew for personnel management, which allows check-in/ out and flow monitoring. The charging port is magnetic that is easy to recharge. It is equipped with an external button and a vibration motor that is friendly to the visually impaired and can be used for first aid or status reports of the wearer.

Key Features

Smart magnetic charging Visual or auditory disability-friendly with vibration motor Multiple RFID frequencies 492 ft (150 m) broadcast distance

Market Applications Personnel management

With a broadcast distance of 492 ft (150 m) and a high level of protection, MWC01 can be widely used in museums, aquariums, and other large indoor places. Wearers' movement can be tracked so that resources can be efficiently allocated. External buttons are accompanied by vibration feedback. Functions such as first response in hospitals and task completion reports in factories can be achieved with further development.

Smart office

MWC01 with built-in RFID can be used for office check-ins, personnel flow monitoring, and employees' route tracing to human utilization geofencing function allows access control as levels of permissions for different areas can be set. Such visitor management protects company privacy to the greatest extent possible.

Product Specifications

Basic Specifications

Body material	ABS + PC
Color	White
Size (L * W * H)	86 * 55 * 6 mm
Weight	19 g (without accessories)
Battery	1 rechargeable battery, 290 mAh
Charging time	Approximate 2 h room temperature 5 V/ 1 A power adapter
Battery life	Up to 3 months less than average amount of clicking
Sensor	Accelerometer
Button	1
Vibration motor	1
LED	1 RGB light
RFID	LF/ HF/ UHF optinal
OTA	Supported
Configuration App	BeaconSET+ ^[1]

Bluetooth-related SDKs are available, please contact our sales team for details.

Technical Specifications

Chip	nRF52 series
Bluetooth version	Bluetooth® LE 5.0
Broadcast frequency	100 ms ~ 5 s
Broadcast distance	Up to 492 ft / 150 m (open area)
Working temperature	-20°C ~ 60°C
Security	Password verification to change settings, restart, non-connectable mode, malicious connecting proof supported

Broadcast Specifications

Type (channel)	Items	Default settings
iBeacon (on)	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) @1 m
	Tx power	0 dBm
	Interval	900 ms

UID (off)	Instance ID	00112233445566778899 (configurable)
	Namespace ID	Random
	Measured power	-24 dBm (0xE8) @0 m
	Tx power	0 dBm
	Interval	2000 ms
URL (off)	URL	https:// www.minew.com/ (configurable)
	Measured power	-24 dBm (0xE8) @0 m
	Tx power	0 dBm
	Interval	2000 ms
TLM (on)	Electricity mV	System built-in
	Boot up time	System built-in
	PDU packets	System built-in
	Tx power	0 dBm
	Interval	4000 ms
INFO (on)	Device name	MWC01
	Battery level	System built-in
	MAC address	Assigned at factory
	Tx power	-8 dBm
	Interval	4000 ms
ACC (on)	Tx power	0 dBm
	Interval	1000 ms
Password	Password	minew123 (default)
Connectable mode	Connectable or not	connectable

Compatibilities

Supported systems	Supported models
iOS 10.0 and above	iPhone6 /6 Plus /6S/ 6S Plus /7 /7 Plus /8 /8 Plus /x /xr /xs /xs max /SE /SE 2 /11 /11 pro /11 pro max
Android 4.3 and above	LG, Samsung, Xiaomi, Huawei, Honor, OnePlus, Google Pixel, etc

Instruction

Boot

After hold the button for 3 s, the blue light will be on for 3 s and vibrate once.

Shutdown

When on, you only can turn it off by the BeaconSET+ App. The blue light flashes 5 times means that it has been powered off.

Battery level

When the battery is lower than 20%, the red light flashes once every 3 s. When being charged, the red light remains on. When the charging is completed, the green light remains on.

App connection and disconnection

When connected the blue light will flash twice. When disconnected, the blue light will flash 3 times.

Connectable mode

MWC01 defaults to connectable mode and can be set to non-connectable mode after connecting the App. MWC01 can return to connectable mode after re-powering in non-connectable mode.

Broadcast:

Click the button once can enter the configurable mode in 1 minute. You can set click the button twice or three times to trigger a broadcast. When click the button twice, the blue light flashes twice and the motor vibrates once. When click the button 3 times, the blue light flashes 3 times and the motor vibrates 2 times.

Precautions

1. When the power is low, the red-light will flash to give an alarm, and please replace the battery in
2. The use time and broadcast distance fluctuate due to the environment, and the specific time is subject to the actual use.
3. The product can only be immersed in water for a short time and does not support use
4. Do not use the product above the designed working temperature to avoid
5. It is recommended that store the product under -20°C to 40°C while charge and discharge the product per 3 months during storage when not in use.
6. Avoid being exposed to direct sunlight for an extended period to mitigate shell
7. Minew will not be responsible for any damage resulting from disassembling

Certifications

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:



- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

Packaging information

Details	Inner carton	External box
Pictures		
Quantities	16 pcs	160 pcs
Sizes	30.5 x 11 x 7.2 cm	32 x 23.5 x 40 cm
Gross weight (with accessories)	0.57 kg	6.2 kg

Documents / Resources



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2ABU6-MWC01, 2ABU6MWC01, MWC01, Bluetooth Rechargeable Badge, MWC01 Bluetooth
Rechargeable Badge, Rechargeable Badge, Badge