ACCELERATION   MAGNETIC   iBeacon   Eddystone

M3 Bluetooth Beacon

The Industrial Bluetooth® M3 BEACON is compatible with Bluetooth® 4.2 standard and it is designed to full-fill all requirements for asset tracking in most industrial use cases.

Thanks to its ultra-low power consumption, the beacon guaranties un-surpassed battery lifetime and on top of that its 3*AA ER14505 battery (7800mAh). Its high precision accelerometer sensor permits to detect most of asset movements and integrated hall sensor can be help to prevent device from accidental shutdown.

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What are the benefits of M3?

Long Lifecycle
More than 20 years lifecycle with 7800mAh large capacity battery to guarantee continuity.

IP67 Waterproof
Rugged design with IP67 waterproof to gurantee the stability.

Replaceable Battery
Replaceable battery design to make sure longer lifecycle or other battery damage situations.

Versatile Installation
Flexible deployment with double-sided adhesive tape or screw, as well as cable tie.

IK09 Shockproof
Thicker housing design with IK09 shockproof to fit for most industrial environments.

Wide temperature range
Industrial design with ASA housing material to extend wider temperature range in -40℃ ~ 85℃.

What are the features of M3?

Magnetic Switch
Equipped with hall sensor to realize magnetic switch and prevent from accidental device shutdown to guarantee continuous working efficiency.

Motion detection
3-axis accelerometer sensor makes it possible to detect movements and extend application scenarios.

LED alert notification
Provide alert notifications with red LED in low battery or other specific situations.

Over-the-air update
Easy to update firmware through DFU process.

Intelligent battery management
Sense and switch intelligently between advertising mode and sleep mode through accelerometer sensor, to reduce battery consumptions.

What are the applications of M3?

Building site

> Tracking of tools and heavy machinery
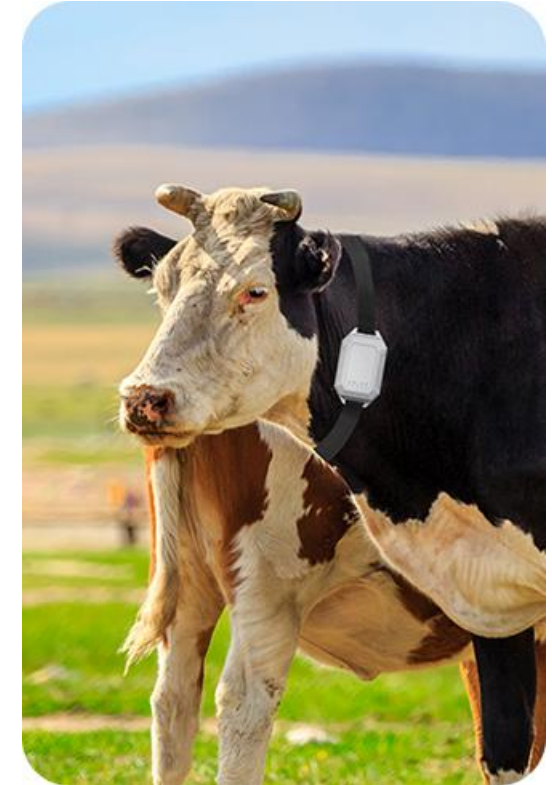> Geo-fence monitoring
> Outdoor navigation tag

Logistics

> Tracking of pallets, containers and forklifts
> Inventories accuracy improvements
> Indoor navigation tag

Manufacturing

> Tracking of raw material, semi-finished and finished products
> Real-time workflow management

Pasture/Zoo

> Tracking of animals
> Animal info pushing and enhance visitor interaction.
> Indoor navigation tag

Multiple Installation Styles

① Double-sided tape

② Screws

③ Straps

Main Specifications

Dimensions
122.6mm x 72.9mm x 33.8mm

Chipset
Nordic nRF52 series

Built-in Sensor
Hall sensor
Accelerometer sensor

Battery
3*AA ER14505 7800mAh
Replaceable battery

Advertising Range
Up to 150m
 (Open area without obstacles)

Installation Styles
Screw | Cable Tie
3M adhesive tape

Material
ASA + PC

Main Model
M3-PNDAX-HA

Frame type
Eddystone - UID, URL, TLM
Apple - iBeacon
Customized - Accelerometer,
Device info

Certification
Product: FCC, CE, RoHS, REACH
Battery: IEC62133, UN38.3, MSDS

What customization services can we provide?

PCB re-layout design
Support customers in making hardware changes to accommodate mechanical design or functional requirements.

Firmware/APP customization
Assit customers in customizing the Firmware/APP to meet full compatbility of different end-users' requirements.

Logo/Packaging design
Offer customized packaging solution and logo design to meet customer's uniform requirements.

Product ID customization
We can set the Product ID according to customers' requirements to fit for different scenarios use.

Firmware verification
Offer professional engineer team to test and verify the functionality of customer's developed Firmware.

Pre-configuration service
Support customers to pre-config required parameters in Beacon during mass production.

FCC Certification

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTIONS

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
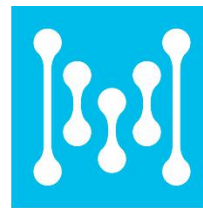
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate 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.

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

FCC ID: 2AO94-M3

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