

H2/H2A Navigation Beacon

Product Brief



Designed with fashionable circular case, and integrated with IP65 waterproof structure, replaceable high-capacity battery, powerful RF performance, H2 Navigation Beacon is the right choice to achieve Indoor wayfinding, accurate RTLS, asset location tracking and etc.

Indoor wayfinding available to extend positioning service

- Powerful RF performance to make sure the indoor positioning and asset tracking.
- Rugged design with IP65 waterproof can be used in the complex environments.
- High-capacity battery to ensure the long duration standby.

Marketing Promotion

- ✓ Multiple advertising protocol provided and customized format supported.
- ✓ Fashionable circular design with IP65 waterproof.
- ✓ Indoor wayfinding and asset tracking.
- ✓ Replaceable High-capacity battery.
- ✓ Long broadcasting distance(up to 150m)*.

All-round service and customization to save your time and costs to market quickly

- Certified for USA (FCC), Europe (CE) including REACH and RoHS environmental regulation.
- All other worldwide certifications can be customized.
- Branding, Logo, Label, Packaging, Manufacture parameters, even hardware and firmware are all customizable.

* Difference H2& H2A: H2A has a screw hole in back housing which can be hung on the wall firmly.

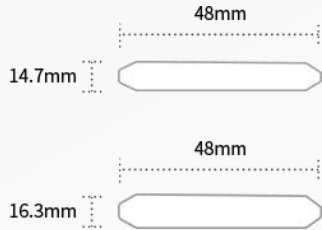
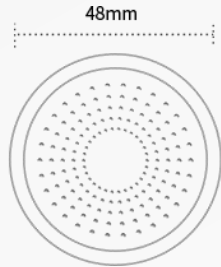
* Long broadcasting distance: Tested in ideal environment without obstacles.



H2



H2A



General Features

Main Chip	Nordic nRF52810
Bluetooth	Bluetooth 4.2 (hardware compatible with bluetooth 5)
Range	Up to 150 meters (in the open area and no obstacles)
Dimension	48.5mm x 48.0mm x 14.7mm(H2) 48.5mm x 48.0mm x 16.3mm(H2A)
Weight	24g (H2) / 25.7g (H2A)
Material	ABS+PC & TPU
Waterproof	IP65
Color	White
Installation	Hang, Neck chain, Sticker
Button	Mechanical button
LED	Single red LED
Sensor	3-axis accelerometer sensor (optional)
Operating temperature	-20°C / + 60°C
Storage temperature	-20°C / + 70°C (without battery) 10°C / + 25°C (with battery)
Humidity	0% ~ 95% (non-condensing)

Functions

Advertising format	Apple iBeacon Google Eddystone (UID, URL, TLM) MOKO BeaconX Pro sensor data
Multi-advertising	Support up to 6 active slots (Beacon can broadcasts different advertising packets separately)
Configurable list	Advertising format and data/ Beacon name Tx Power/ Advertising interval Connection password/ Trigger options/ Sensor parameters
Sensor sampling	Broadcast or notify the 3-axis accelerometer sensor data in real time
Indoor positioning	Calculate the distance through RSSI and utilize triangulation location to achieve indoor positioning
Configuration APP	iOS and Android are available Scanning the advertising data and connecting to configure all parameters Available APP SDK for customer to develop
Firmware update	Nordic DFU OTA/ J-link

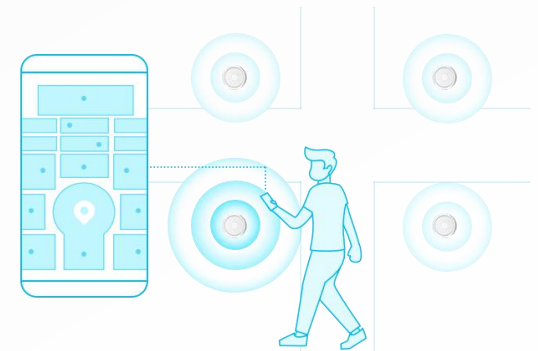
Power

Power supply	Replaceable CR2477 Lithium Coin Cell Battery 1000mAh
Average current	15.6uA (Default settings*)
Lifetime	5 years (Default settings*)

Default settings - 1 active slot, 1000ms ADV interval, 0 dBm Tx power and without 3-axis sensor.

Service and Customization

Certification	USA (FCC), Europe (CE-RED, CE-LVD, CE-EMC, REACH, RoHS) Other certifications can be customized
Manufacture customization	MP Pre-configuration parameters Packaging/ Laser logo/ Label/ Sensor
Development	Custom firmware development Customer firmware programing Custom hardware design and layout



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