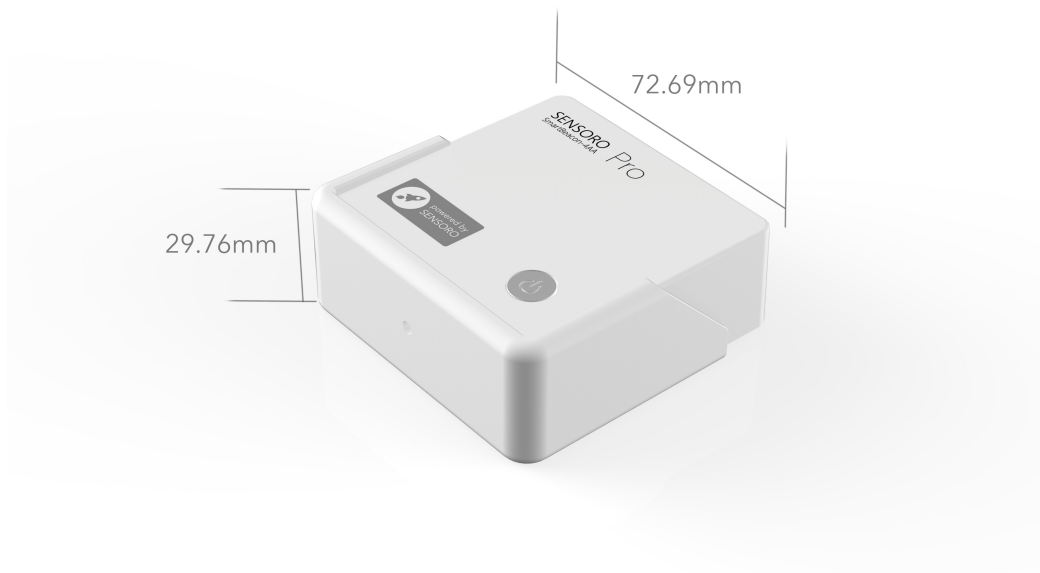


Sensoro SmartBeacon-4AA Pro

Outlook

The SmartBeacon-4AA Pro is built for commercial deployment and is specially suited to outdoor situations because its protection against various environmental conditions.



Ingress Protection Criterion

SmartBeacon-4AA Pro achieves a professional-grade waterproof and dustproof rating of IP67. The IP67 rating guarantees total protection from dust and from submersion in between 15cm to 1m of water despite featuring an external power button and screwless design.



IP is an abbreviation of International Protection Marking, sometimes called Ingress Protection. The IP rating for electrical equipment enclosure classifies and rates the degree of protection against intrusion by dust, accidental contact, and water. The rating classification is published by the International Electrotechnical Commission (IEC) standard IEC 60529, the standard adopted in 2004 by the American National Standards Institute. The IP rating format for enclosure and protection of electrical equipment is IPXX, where XX is the two digits, the first digit representing the contact protection level against external particles, and the second digit representing the waterproofing protection level.

SmartBeacon-4AA Pro's rating of IP67 guarantees no ingress of dust, complete protection against contact, and protection while submerged in up to 1 meter of water.

Features

1. Ultra-Low Power

A Bluetooth® 4.0 (Bluetooth® low energy) Nordic NFR51822 chip with ultra-low power consumption is used.

Bluetooth low energy with intelligent energy-saving programs allows the beacon to work for three to five years on four AA batteries.

2. Compatibility

Software and firmware are fully compatible with Apple's iBeacon and Google's Eddystone (include EID) technical requirements, and can be applied to systems including:

iOS 7.0 or above:

iPhone 4S, iPhone 5, iPhone 5S, iPad 3, iPad mini, iPad air.

Android 4.3 or above:

Samsung Galaxy S III, Galaxy S IV, Galaxy Note II, Galaxy Note III and Motorola RAZR, HTC ONE, etc.

3. Demo App and Configuration App

The "Yunzi" (demo) app allows you to experience our beacons, while the "Sensoro" app (configuration tools) puts you in control of all of their features.

Scan the QR code to download:



Signal Stability and Data Transmission

1. Transmission Stability and Distance

To achieve signal stability and long-distance data transmission requirements, the SmartBeacon-4AA Pro underwent extensive testing and modification. Its signal remains stable even in complex deployment locations. Radius frequency (RF) power demand configuration can be adjusted to a maximum radius of 80 meters. The RF power demand configuration can reduce its radius to a minimum of 0.15 meters, which covers an area of 0.225 square meters. However, it is possible that no signal will be obtained if the RF power is adjusted to a minimum.

2. Enterprise Class Device Management Support for Enterprises

Mass management of device status is an essential component of our enterprise class cloud software solutions. Our patented beacon devices can be deployed to collect bulk data, and using the Sensoro cloud, your organization has the essential tools needed to seamlessly manage large-scale deployments. Centralized management on your phone or computer is made easy by enterprise class software solutions.

Specifications

Property	Specifications
Chip	Nordic
Dimensions	72.69mm x 70.00mm x 29.76mm (Including the wall mount kit)
Weight	92g
Material	Polycarbonate
Three-Layered Protection	Water/Dust/Shock Proof

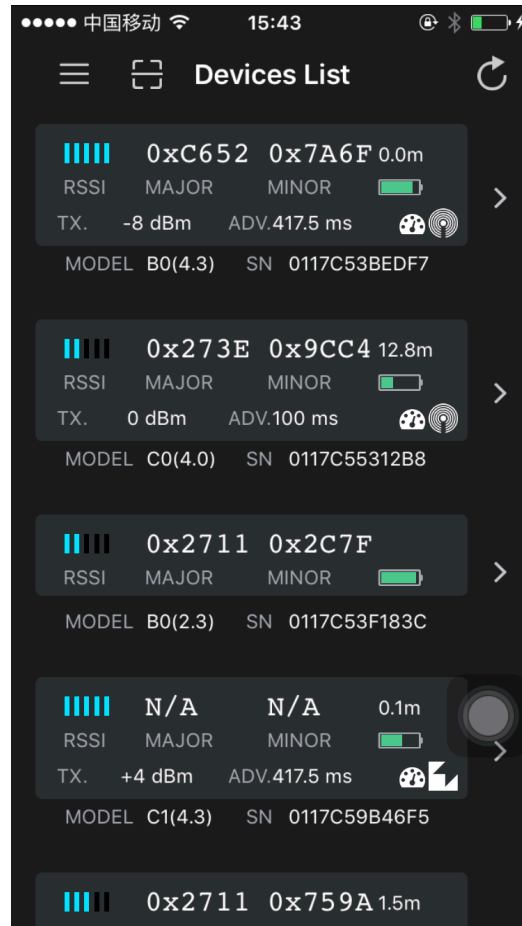
IP Level	IP67
Protocol Standards	Bluetooth 4.0 iBeacon and Eddystone Authorization
Compatible Systems	iOS 7.0 or above, Android 4.3 or above
Upgrades	Supports wireless upgrades
Security	Supports password access
Sensors	Temperature
LED	1 LED light bulb
Emission Strength	-30dB to +4dB (Can be adjusted to optimize signal strength)
Transmission Distance	0.15~80m
Radio Frequency (Transmission Broadcast Interval)	Adjustable (100 milliseconds~1.285 seconds)
Broadcast Time Electricity Consumption	7.58 * 10 ⁻⁶ mAh (-8dB Emission Power)
Supply Voltage	3.0V
Battery	No. 5 battery (4 batteries, not included)
Operation Life	2-5 years

Sensoro App's Configuration Tools

The Sensoro app is available for developers to check on and configure the parameters of all nearby Sensoro beacons. The Sensoro app is compatible with iOS 7.0 or above (iPhone 4S, iPhone 5, iPhone 5S, iPad 3, iPad mini, iPad air) and Android 4.3 or above (Samsung Galaxy S III, Galaxy S IV, Galaxy Note II, Galaxy Note III and Motorola RAZR, HTC ONE, etc.). Using the Sensoro app, you can deploy beacons one at a time, and then view all nearby beacons if you want to make

changes. If you would like to deploy and configure beacons in bulk, please use the “Deploy” app.

Open the Sensoro app, and the Device List of all nearby beacons will appear. The information for each beacon includes Major, Minor, as well as other basic information including an animated display of the RSSI strength.

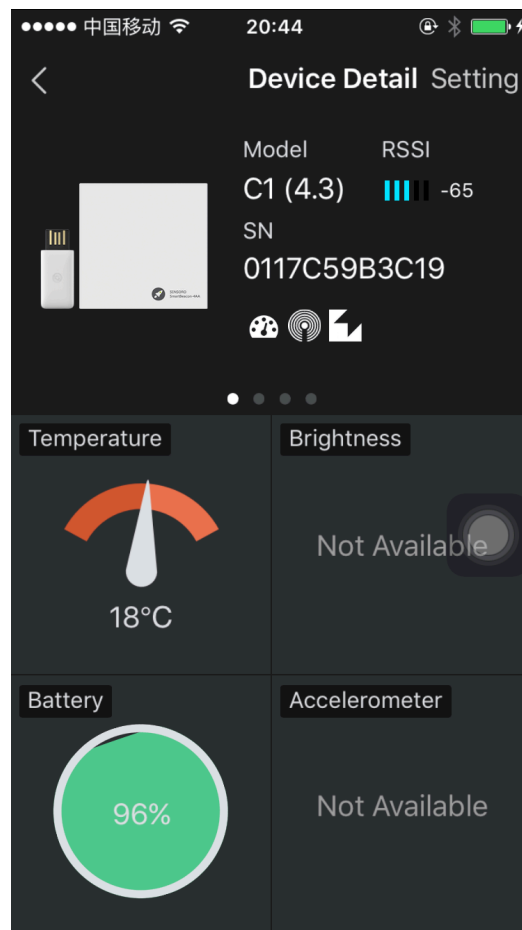


All nearby Sensoro beacons will be listed by order of when the app detected their presence. By changing the Major, Minor values, we can differentiate beacons. Since Major, Minor consists of two values, we recommend grouping associated beacons using the Major value, and labeling individual beacons using the Minor value. For example, beacons at a museum might all have the 00FF code for Major, and each individual beacon placed at different locations throughout the

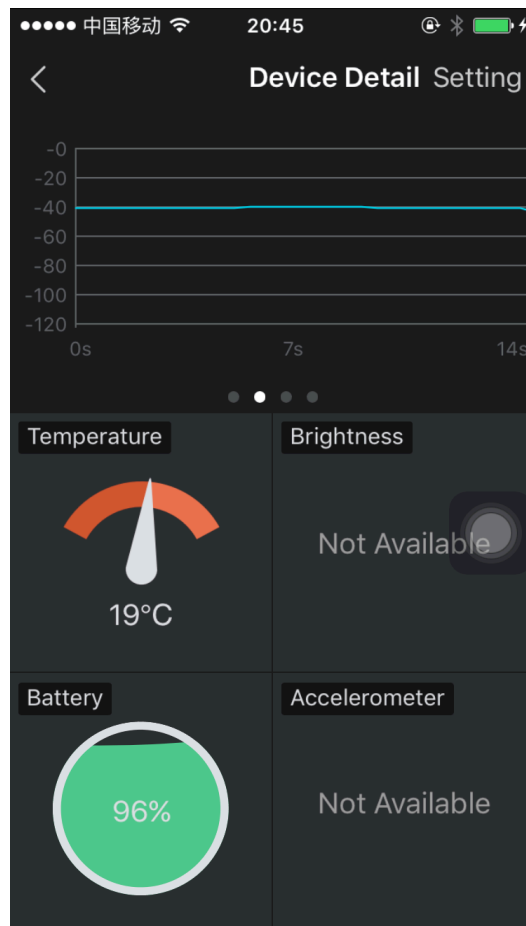
museum would have a unique Minor code. If you would like to view the tags of all devices in range, please log into the Sensoro Cloud on the Inspection app.

The Device Detail page displays the real-time details of each of the beacon's sensors, battery life, and RSSI signal. Touch the device box on the Device List to enter the Device Detail page.

You can also locate an individual beacon on the Device List by scanning the device's QR code. Touch the scanning icon on the top right of the device list. Once the device is scanned, it will take you to the Device Detail page.



Swipe left on the top of the Device Detail page to bring up the real-time RSSI line display graph. This more detailed RSSI graph allows developers to accurately understand the signal changes in the device, as show below.



Swipe left again to view whether the device being viewed is using iBeacon or Eddystone protocol.



The Sensoro app supports setup of beacon's basic information (including UUID, Major and Minor) as well as the modification of device transmitting power, radio frequency, and other parameters.

For Google Eddystone, UID, URL, TLM and EID are fully supported by Sensoro app now. Moreover, you can also use this app to ONE-way-switch the beacon mode into the standard Eddystone Configuration GATT service.

***Notice:**

1. Currently setting up the EID is only available on Android (download link: <http://www.sensoro.com/en/download/>), which needs a full installation of Google-Play-Service and Google Service Framework, and Nexus 5/6 are recommended.

2. We also have another "Full Eddystone GATT" special version firmware available, which was built to work with Google's Beacon Tool App. Please contact our sales team (seattle@sensoro.com) if you'd like to order this special version.

Google's Beacon Tool App download links:

iOS:

<https://itunes.apple.com/us/app/beacon-tools/id1094371356?mt=8>

Android:

<https://play.google.com/store/apps/details?id=com.google.android.apps.location.beacon.beacontools&hl=en>

3. Currently switching to the standard Eddystone Configuration GATT service is a ONE way feature, and a third-party tool is needed when switching back to Sensoro Configuration service. Manual for Mode Switch download link:

http://www.sensoro.com/static/Manual_for_Mode_Switch.pdf

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Cancel Settings Save

iBeacon

iBeacon

Enabled >

UUID 23A01AF0-232A-4518-9...

>

Major

0x387D >

Minor

0x68D7 >

Eddystone

UID

Disabled >

URL

Disabled >

TLM

Disabled >

NID 5DC33487F02E477D4058

>

BID

0117C59B3C19 >

URL http://www.sensoro.com/

>

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Cancel Settings Save

Eddystone

UID

Disabled >

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TLM

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NID 5DC33487F02E477D4058

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BID

0117C59B3C19 >

URL http://www.sensoro.com/

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TLM Interval

One per One >

[Switch to eddyst...lly support mode](#)

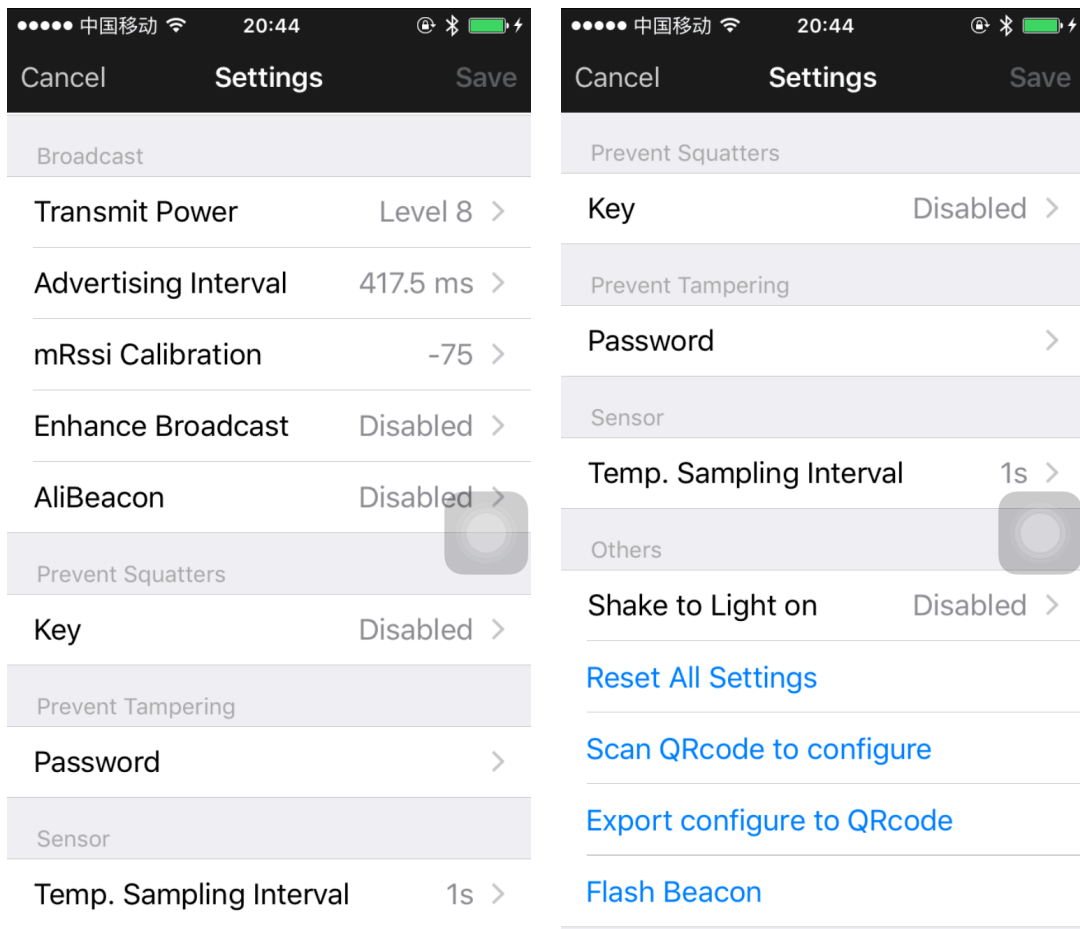
Broadcast

Transmit Power

Level 8 >

Advertising Interval

417.5 ms >



Security

The device is made secure by a hardware level password, used also by the US military, which prevents unauthorized modification of SmartBeacon-4AA Pro parameters. SmartBeacon-4AA Pro allows you to enjoy rich functionality and stability without security concerns.

Quality Assurance

Having passed FCC (FCC certification number: 2ADYO-C0), CE, and MIC certification, each device has rigorously undergone factory defect, spectrum, power, and stability testing.

**Note:**

Product Name: SmartBeacon

Model No: 4AA Pro

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