

Versatile BLE Tag – Low Cost Long Battery Life



AiRISTA's A1 Tag is a small form factor BLE tag. With breakthroughs in cost, longevity and distance, this tag opens exciting use cases across multiple industries.

The low price point means thousands of assets, not previously practical, can now be tracked. Based on the latest processor technology, the device supports BLE versions 4.X and 5.X (including 5.1 AoA).

In addition to beaconing, the tag is also a BLE receiver and scans for neighboring beacons, facilitating use cases that associate people to things. For example, ensures equipment stays near patients or social distancing among people.

A button on the tag's face provides software definable responses to a button push by users.

Industry Support

In addition to support for common protocols including Eddystone, and iBeacon, AiRISTA's firmware provides control of the tag over-the-air and opens features that extend your IOT strategy to thousands of devices.

Tag Options

- Accelerometer
- Wrist band, key fob / key chain

Benefits

- Priced as a disposable device
- 2+ year lithium battery life
- BLE scanning allows for use cases based on "associations" between assets, or social distancing between people
- Push button provides notification of events
- Increased processing speed and expanded memory

Features

- BLE 4.0 - 5.0 compliant
- Long-life, replaceable battery
- Multiple ways to attach tag to assets
- General purpose tactile call button
- Over the air programming and configuration capabilities

Technical Specs

1 MB Flash (for OTA programming)

BLE Radio

Blue-tooth Low Energy (BLE) Radio

BLE 4.1, 4.2, 5.0 Compliant

RX BLE: 6mA

TX BLE: 6mA

TX BLE max Out Put Power: 5dBm

Electrical Interface

Long lasting Replaceable 3V CR 2032 coin battery

Battery Life

2+ years at 1.5 sec beacon interval (ref. 225mA
2032 battery, no ancillary functions enabled)

Frequency band

Channels 1-11: North America

Channels 1-13: Global

Channels 1-14: Japan

Environment

Operating Temperature: -40 to 158°F / -40 to 70°C

Storage Temperature: 50 to 70 °F / 10 to 25 °C

Typical Operating Range

Line of Sight: 150 feet at 5dBm

Obstructions: 75 feet at 5dBm

Physical

Dimensions:

Thickness: 7 mm /.25 in.

Dial Size: 40 mm/1.5 in.

Weight: 0 .8 oz. / 23 g

Certifications

FCC: Part 15 (US and Canada)

CE Mark (European Union)

Part Number

A1.Wrist

A1.Pendant

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