

## Wi-Fi / BLE Tag for High Accuracy Asset Tracking



AiRISTA's A4n is an active location tracking tag that operates over standards-based, enterprise-grade Wi-Fi / BLE networks. In conjunction with the AiRISTA Unified Vision software, the tag enables location tracking of virtually any asset or object. The AiRISTA A4n operates on standard Wi-Fi networks. It does not require any extra infrastructure beyond your enterprise Wi-Fi / BLE network.

### Industry-Leading Location Accuracy

Using standard 802.11 b/g/n 2.4GHz Wi-Fi networks, the AiRISTA A4n tag tracks assets in real-time throughout an enterprise. For applications requiring fine grained location accuracy, such as hospitals, the AiRISTA A4n offers BLE technology that can be used in combination with AiRISTA location beacon for bed-level positioning.

### Small and Smart

The dust and splash-proof AiRISTA A4n tag has a small form factor and weight. The design allows users to mount the AiRISTA A4n on small or odd-shaped objects. Mounting options include a custom cradle, zip ties, Velcro® or dual-sided tape.

The tag contains two configurable buttons that can be used for sending alarms or notifying you about events such as when an asset is in service or out of service. The tag's LED display can be remotely triggered to initiate a local alarm on the tag or alert personnel. The AiRISTA A4n tag can be configured over the air to allow remote management.

### Benefits

- Enterprise-wide asset visibility.
- Software programmable buttons to trigger events in business process workflows.
- Find the right asset instantly.
- Reduce inventory and rental costs.

### Features

- BLE 4.2, 5.0 compliant
- Extended Battery Life
- Unbeatable accuracy with a standard Wi-Fi network
- Small size to fit small and odd shaped assets
- Works on any Wi-Fi network (2.4GHz)
- Battery level reporting
- Dust- and splash-proof
- Various mounting options
- Two programmable buttons
- LED light alerting
- Over-the-air programming

## Wi-Fi Radio

Supported Wi-Fi Networks: 802.11 b/g/n  
Sleep Mode Maximum Leakage Current: <10ua  
TX 802.11b, CCK 11 Mbps, Pout = +19 dBm  
TX 802.11g, OFDM 54 Mbps, Pout = +17 dBm  
TX 802.11n, MCS7, Pout = +17 dBm  
Rx 802.11b, 1024 bytes packet length, -80 dBm  
Rx 802.11g, 1024 bytes packet length, -70 dBm  
Rx 802.11n, 1024 bytes packet length, -65 dBm  
FCC, Canada, ETSI 2.4 - 2.4835 GHz  
Japan 2.471 -2.497 GHz  
Layer 2 Network Support: CCX, Blink  
Security: WEP, WPA2-PSK  
Supported Data Rates, 1, 6,11,54,72 Mbps

## BLE Radio

Blue-tooth Low Energy (BLE) Radio  
BLE 4.1, 4.2 and 5.0 Compliant  
RX BLE: 6mA  
TX BLE: 6mA  
TX BLE max Out Put Power: 5dBm

## Electrical Interface

Replaceable 1200 mAH, 3.0V Lithium Battery  
Antenna: Omni-directional antenna  
Configuration: Over-the-air remote configuration

## Battery Life

2+ year battery life, depending on the beacon rate.  
The A4n tag's low power radio and intelligent motion sensor can extend battery life. It also alerts the user when the battery is low.

## User Interface

Two call buttons  
Two red/green signal LEDs  
Motion detection

## Frequency band

Channels 1-11: North America  
Channels 1-13: Global  
Channels 1-14: Japan

## Environment

Operating Temperature: 32 to 122 °F / 0 to 50 °C  
Storage Temperature: 50 to 70 °F / 10 to 25 °C  
Humidity: 95 % non-condensing, relative humidity  
Protection: IP64 rating (IP65 with optional gasket)

## Typical Operating Range

Line of Sight:  
Wi-Fi 330 ft (100 m) @11Mbit/s @19dB output power  
BLE Up to 150 ft (45m)\* @4dB output power  
Obstructions:  
Wi-Fi 150 ft (45m) @11Mbit/s @19dB output power  
BLE Up to 75 ft (25m)\* @4dB output power

## Physical

Dimensions:  
45 x 55 x 19 mm / 1.8 x 2.2 x 0.7 in  
Weight: 1.7 oz. / 48 g  
Mounting: double-sided tape, Velcro, mounting plate (optional), hang mount (optional)

## Certifications

FCC: Part 15 (US and Canada)  
CE Mark (European Union)

## Part Number

A4n  
A4n.MNT.P (Mounting plate for A4n)  
Asset.BAT (Replacement Battery)

## Warranty

One Year Warranty