



## Wi-Fi / BLE Tag for Asset Tracking

A3 Wi-Fi / BLE  
 Flange /Key Fob

A3 Wi-Fi / BLE

A3 Wi-Fi / BLE  
 Watchband

AiRISTA Flow’s A3 asset tag is designed to monitor assets within a Wi-Fi / BLE network environment. The A3 Wi-Fi / BLE asset tag offers multiple options to generate alerts on environmental and condition sensing. This tag allows the user to develop on an open system without using proprietary infrastructure and seamlessly

### Industry-Leading Location Accuracy

With a small yet rugged water-resistant form factor, the A3 Wi-Fi / BLE asset tag can be affixed to virtually any piece of equipment or fixture indoors or outdoors for enterprise-wide tracking. AiRISTA Flow’s RTLS platform leverages asset data to process definable to automate processes and drive greater efficiency.

AiRISTA Flow Wi-Fi / BLE asset tags are rugged and can be used for a variety of applications across multiple industries such as healthcare, logistics, hospitality and manufacturing.

### Benefits

- Combines use cases for location and choke point detection
- Impact sensing for crash/damage detection
- Motion sensing wakes tag from sleep
- Build business process workflows with AiRISTA Flow UVS software combining location, condition sensing and button push.

### Features

- BLE 4.2, 5.0 compliant
- Wi-Fi 802.11b/g/n compliant (Encryption: WEP, WPA, WPA2)
- Long-life replaceable battery
- Multiple ways to attach tags to assets
- Accelerometer “wake on motion” optimizes battery life (optional)
- Temperature/humidity sensors (optional)
- General purpose tactile call button
- Visual indicators through multiple LEDs (based on model)
- Over-the-air programming and configuration capabilities
- Cisco Systems wireless protocol support for over-the-air management, telemetry, and firmware updates
- Optional flange or winglet enclosure

## 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

Up to 5 years of battery life depending on the beacon rate and configuration

## Accelerometer

- 3-axis "nano" accelerometer
- Ultra-low-power consumption (down to 2 uA)  
2g/±4g/8g/16g dynamically selectable full scale  
6D/4D orientation detection
- Free-fall detection
- Motion detection
- Embedded self-test
- 10000 g high shock survivability

## Frequency band

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

## Environment

Operating Temperature: -22 to 185 °F / -30 to 85 °C  
Storage Temperature: -22 to 185 °F / -30 to 85 °C

## Typical Operating Range

### Line of Sight:

Wi-Fi: 330 ft (100 m) / BLE: Up to 150 ft (45 m)\*

### Obstructions:

Wi-Fi: 150 ft (45 m) / BLE: Up to 75 ft (25 m)\*

## Physical

Dimensions: 52 x 32 x 13 mm /2.17 x 1.26 x .51 in  
Weight: < 38 g / 1.34 oz  
Form Factor: ABS/ Polycarbonate enclosure (IP65, NEMA 4X)

## Certifications

FCC: Part 15 (US and Canada)  
CE Mark (European Union)  
Cisco Support: CCX & LTX protocol support

## Part Number

AF.A3.B (BLE) AF.A3.W (WiFi)  
AF.A3.WB (BLE & Wi-Fi) AF.A3.LTX  
AF.A3.BATT (A3 Replacement Battery)  
(Identical to AF.T4 tags)

## Warranty

One Year Warranty

\*Specifications subject to change without prior notice.

AiRISTA Flow, Americas  
913 Ridgebrook Rd. | Suite 110  
Sparks, MD | 21152 | USA  
Tel: 1-844-816-7127  
info@airistaflow.com

AiRISTA Flow, APAC  
Level 9 Wyndham Building  
1 Corporate Court  
Gold Coast | QLD | Australia  
Tel: 07 3053 8375

AiRISTA Flow, EMEA  
Vaisialantie 4 | B-rakennus | 02130  
Espoo | Finland  
Tel: +358-10-326-7600  
info@airistaflow.com