

### Wi-Fi / BLE Badge Tag for Real-Time Staff Safety & Communications



The AiRISTA B4n badge tag is a safety device which generates alerts in response to staff duress events. The tag sends the ID and location of the individual to AiRISTA’s software platform which directs responders to the scene using the text display. These badges are similar in size and shape of typical ID badges and are attached using an AiRISTA provided clip.

The B4n badge gives key staff the information they need using business rules that are context-aware (such as tag button press, location, or proximity) and condition-aware (item category, count, or temperature). The badge incorporates a self-illuminating OLED (organic LED) display for sending alerts and text messages. This distinguishing feature enables staff to communicate for routine or emergency reasons to offer enhanced on-the-job safety for staff members and others that may be impacted. AiRISTA RTLS provides an easy-to-use web-based user interface that displays the location of people wearing the AiRISTA B4n in an actual, floor plan view.

### Two-way Communication, Safety Pull Switch and Custom Buttons Including Panic Button Alert

Using the AiRISTA B4n, a staff member is able to send an alert if being attacked or if immediate help is needed. In addition, a built-in motion sensor enables automated “man down” alarms. The alarm, which reveals the precise location of the badge at the time of the alert, can be programmed to notify security, and third party applications to re-point video cameras, or control door locks and lighting— all customized to your environment.

The B4n badge tags use a high-energy, rechargeable battery that works for weeks (depending on location update interval) without recharging. The battery can be charged using individual desk chargers or a rack charger, which can charge up to ten badge tags at a time.

### Benefits

- Accurately locate staff, visitors, and other personnel
- Reduce response times with AiRISTA Flow’s exclusive two-way communication features
- Send and receive messages to and from any badge within your Wi-Fi / BLE environment
- Proximity capable: staff/patient, social distancing, congregation points
- Customize alarms and notifications with two call buttons
- Stay powered with rapid two hour charging

### Features

- BLE 4.2 & 5.0 compliant
- Designed for staff or visitor location awareness applications
- Safety pull for staff duress
- Programmable buttons for customized messaging
- Remotely-activated audio buzzers and two LEDs for on-board alerting
- BLE and Infrared capability for fine grained location accuracy

## 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

DC Power: Rechargeable Lithium Polymer battery  
Capacity: 600mAh  
Rated cycle life: 300 cycles > 70% of initial cap Interface  
Antenna: Omni-directional antenna

## Battery Life

\*Average 24-36 hours per full charge  
This time will depend on the configuration applied to the tag.

## User Interface

Two call buttons and a menu button  
Two red/green signal LEDs  
Safety switch to receive lanyard  
Customizable Alarms  
Organic LED Display for text messaging and menu  
Customizable Display Menu

\*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@airista.com

AiRISTA Flow, APAC  
Level 9 Wyndham Building  
1 Corporate Court  
Gold Coast | QLD | Australia  
Tel:+61- 07 3053 8375

AiRISTA Flow, EMEA  
Espoo | Finland  
Tel: +44-7787-428588  
info@airista.com

## 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: -40 to 140 °F / -40 to 60 °C  
Humidity: 95 % non-condensing, relative humidity  
Protection: dust and splash proof enclosure

## Typical Operating Range

### Line of Sight:

330 ft/100 m @11Mbit/s, 500 ft/150 m @2Mbit/s\*

### Obstructions:

140 ft/40 m @11Mbit/s, 200 ft/60 m @2Mbit/s

## Physical

Dimensions:  
3.54 x 2.36 x 0.33 in / 90 x 60 x 8.5 mm  
Weight: 1.7 oz. / 48 g

## Certifications

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

## Part Number

Badge Tag: B4n  
Multi-charger for 10 B4 badges: B4n-10-Multicharger  
USB Charging Cable: B4n-USB  
Charging Adapter: Charge-adapter  
Car Charger: B4n-CarCharger

To prevent damage to the safety switch, use AiRISTA provided breakaway lanyards or an attachment device approved by AiRISTA (contact [CustomerService@airista.com](mailto:CustomerService@airista.com)). Unapproved devices are used at owner's risk.