AiRISTA

Location. Insight. Visibility.

B4n Wi-Fi / BLE

Personnel Display Tag

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
- Supports BLE Angle of Arrival for submeter accuracy

Features

- BLE 4.X & 5.X 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

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Technical Specifications   B4n Wi-Fi / BLE

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.

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: 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). Unapproved devices are used at owner's risk.

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