

## Wi-Fi / BLE Badge Tag for Social Distancing and Real-Time Staff Safety



The AiRISTA B3 badge tag provides proximity detection for hand hygiene compliance and social distancing & contact tracing using an existing Wi-Fi network. These badges are similar in size and shape of typical ID badges, to fit easily on a lanyard with other credential cards or on a belt clip.

As a social distancing solution, the AiRISTA B3 detects other tags within a proximity range and alerts the user. The tag's Wi-Fi capability will upload the tag's contacts using existing wireless infrastructure to the AiRISTA RTLS software platform which provides reports and automates contact tracing. As a hand hygiene device, the B3 is used to remind and enforce hand hygiene protocols.

**Proximity sensing, contact storage, and BLE / Wi-Fi gateway capability make it an ideal tag for hand hygiene and social distancing & contact tracing**

The B3 badge also 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).

As a hand hygiene device, the B3 records hand washing occurrences and reminds the wearer when a sanitization is needed with LEDs or audible chirps. With years of practical experience, the tag is even sensitive to "drive by" dispenses when the clinician makes no pause in front of the dispensing unit.

The B3 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 USB charging cables or a rack charger, which can charge up to ten badge tags at a time.

### Benefits

- Predefined proximity settings alert the user for social distancing
- Proximity contact records facilitate automated contact tracing
- Together with the *sofia* software platform, provides support for unique dispenser types and hand hygiene protocols
- Accurately locate staff, visitors, and other personnel
- Customize alarms and notifications with two call buttons
- Stay powered with rapid two hour charging

### Features

- BLE 4.X & 5.X compliant
- Proximity detection
- BLE / Wi-Fi gateway capability
- 2 programmable buttons
- Button push for staff duress
- Audio buzzers and two LEDs for on-board alerting
- BLE 5.X support 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  
Customizable Alarms

## 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: B3

Multi-charger for 10 B3 badges: B4-10-Multicharger

USB Charging Cable: B4-USB

Charging Adapter: Charge-adapter

Car Charger: B4n-CarCharger

\*Specifications subject to change without prior notice.

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