

## Wi-Fi badge tag for real-time locating

The AiRISTA Flow featuring Ekahau B4 badge tag provides accurate location for tracking people within your enterprise using an existing Wi-Fi network. These badges are the same size and shape of typical ID badges to fit easily on a lanyard with other credential cards or on a belt clip.

The Ekahau B4 enables easy two-way communication between staff members helping organizations increase staff productivity and safety. The AiRISTA Flow Real-Time Location System (RTLS) gives key staff members the information they need using context-aware (such as tag button press, location, or proximity) and condition-aware (item category, count, or temperature) business rules. The badge incorporates a self-illuminating OLED (organic LED) display for sending alerts and receiving 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 Flow RTLS provides an easy-to-use web-based user interface that displays the location of people wearing the Ekahau B4 in an actual, floorplan view. The text messaging capability, combined with accurate real-time location data, provides a powerful way to remotely manage large areas, workflows, and a high volume of people, and the workflow of large numbers of people.

### Two-way communication and custom buttons

This small, two-way device is an ideal way to improve staff security. Using the Ekahau B4, 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 call security, re-point video cameras, or control door locks and lighting— all customized to your environment.

The 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.



### Features

- Designed for staff or visitor location awareness applications
- Hands-free safety pull for staff duress
- Programmable buttons for customized messaging
- Remotely-activated audio buzzers and two LEDs for on-board alerting
- Includes environmentally-friendly rechargeable batteries

### Benefits

- Accurately track, 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 environment
- Customize alarms and notifications with two call buttons
- Stay powered with rapid two hour charge

# Technical Specifications

---

## Radio

Supported Wi-Fi Networks: 802.11 b/g  
DSSS (Direct Sequence Spread Spectrum)  
Media Access: CSMA/CA  
Output Power: +12dBm  
Receiver Sensitivity: -93dBm@1Mbit/s  
FCC, Canada, ETSI 2.4 - 2.4835 GHz  
Japan 2.471 -2.497 GHz  
Network Protocol: UDP/IP, addressing DHCP  
or static  
Security: WEP 40/104bit (equals 64/128bit),  
WPA2-PSK

## Electrical interface

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

## User interface

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

## Certifications

FCC Part 15 (US), IC (Canada), CE Mark  
(European Union)

## 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: splash proof enclosure

## Typical operating range

Open Space: 330ft/100m @11Mbit/s,  
500ft/150m @2Mbit/s  
Closed Office: 140ft/40m @11Mbit/s,  
200ft/60m @2Mbit/s

## Physical

Dimensions: 2.36 x 3.54 x 0.33 in / 60 x 90 x 8.5  
mm  
Weight: 1.7 oz/ 46 g

Specifications subject to change without prior  
notice.

For more information: Sebastian LoGrasso [sebastian@kls-tech.com](mailto:sebastian@kls-tech.com)