



Wi-Fi Pager and Badge Tag

For enterprise-wide visibility into the real-time location and safety of staff members

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

The Ekahau Badge Tag enables easy two-way communication between staff members helping organizations increase staff productivity and safety. The Ekahau 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 enabling staff to communicate for routine or safety reasons. Ekahau RTLS provides an easy-to-use web-based user interface that displays the location of people on large campus floor plans. The text messaging capability, combined with accurate real-time location, provides a powerful way to remotely manage large areas 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. A staff member is able to send an alert if being attacked or if immediate help is needed. In addition, a build-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 badges 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 10 tags at a time.

The Ekahau B4 Badge communicates through your W-Fi network with the Ekahau RTLS Controller (ERC) server, which manages all tags and badges on the network. The ERC also handles all location calculations, bi-directional tag messaging, firmware upgrades, programming, alarms and alerts to and from all the badges on the system. The ERC delivers all event and transaction information via an XML API to Ekahau Vision or any third party software platform or application.

Features

- Man Down feature
- Designed for staff or visitor tracking applications
- Bidirectional texting communications
- Hands-free safety pull for staff duress
- Programmable buttons for customized messaging
- Remotely-activated audio buzzers and two LEDs for on-board alerting
- Has environmentally-friendly rechargeable batteries

Benefits

- Accurately track, staff, visitors and other personnel
- Speed up staff communications using Ekahau's exclusive two-way wi-fi paging capability
- 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/n
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.



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