ekahau

For enterprise-wide visibility into the real-time location of patients and visitors

The Ekahau W4 Wi-Fi tag enables real-time location visibility of a person's exact location enterprise-wide, with reliable room and sub-room accuracy. The Ekahau W4 tag is worn comfortably on a person's wrist using a detachable wristband with a lock-in mechanism which makes it easy to put on and prevents removal of the band, when in use. The tag is also waterproof, allowing users to comfortably bathe during use and enabling easy cleaning after use.

Ekahau W4 tag includes an LED for display of signaling events, and a built-in vibration unit to alert the tag wearer, as well as a call button that may be pressed to request help. By activating the vibration and LED functions over the wireless (802.11) network, a staff member can call patients over the air using Ekahau's B4 badge tags or using the Ekahau Vision™ web-based messaging software application. Patients may also acknowledge or cancel help requests by pressing a software-configurable button on the W4 tag.

The Ekahau W4 tag uses a rechargeable, long life lithium polymer battery and can be charged with a single charger or multi-charger that can be daisy-chained with other multi-chargers, wall-mounted or placed on flat surfaces.

Features:

- Full 2-way alerting and communications over standard Wi-Fi networks

- Tag is secure when in use and wristbands are easily detached when not in use.

- Comfortable, watch-like design

- Waterproof badge and wristbands

- Active RFID technology enables 1m/3ft real-time location visibility (IR receiver for room and sub-room level accuracy)

- Re-chargeable long life lithium polymer battery.

- Single or multicharger with multiple mounting options (re-charge time less than two hours)

- Dual alarm indication with vibration and LED light

Technical Specifications

Radio

Supported Wi-Fi Networks: 802.11 b/g/n*
Modulation: DSSS (Direct Sequence Spread Spectrum)
Media Access: CSMA/CA
Output Power: +11bBm @11Mbit
Receiver Sensitivity: -95dBm @1Mbit
Frequencies FCC, Canada, ETSI: 2.4 - 2.4835 GHz
Frequencies 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: 530mAh
Rated cycle life: >300 cycles with 80% of nominal capacity
Interface Antenna: Omni-directional antenna
Battery life: up to 500h @ 15s interval in blink mode

User Interface

Call button
One red/green LED
Vibration alarm
3D accelerometer for motion detection

* g/n only in CCX or Ekahau blink mode

Certifcations

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: dust and waterproof enclosure
Typical Operating Range
Open Space: 330ft/100m @11Mb, 500ft/150m @2Mb
Closed Offce: 140ft/40m @11Mb, 200ft/60m @2Mb

Physical

Dimensions: 51.5 x 50 x 17.5mm / 2 x 1.9 x 0.7in
Weight 31g / 1.09 oz

Fully waterproof enabling easy cleaning.

Specifications subject to change without prior notice.

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