



T301W

Wearable Tag

Wearable Wi-Fi tag – for enterprise-wide visibility into the real-time location of staff members, visitors and patients

The Ekahau T301W is the industry’s first Wi-Fi wristband tag designed to be worn by hospital patients, employees, children and other individuals. It enables real-time visibility to a person’s exact location enterprise-wide, with reliable room- and sub-room accuracy. The T301W is designed to be worn comfortably on a person’s wrist or ankle using a standard hospital wristband that can be attached through slots on both sides of the unit. The tag is waterproof allowing it to be thoroughly sanitized after use. The wearer of the tag can comfortably bathe or shower as well while wearing it.

The tag includes a two-color LED for signaling events to the person wearing the tag, a vibration unit for alerting the wearer as well as a call button that can be used to call for help. By activating the vibration and LED functions over the wireless network a staff member can call patients over-the-air using Ekahau’s unique two-way tag communication protocol. Patients can acknowledge calls by pressing the button on the tag. Similarly a patient can call for help by pressing the tag button, and the system triggers an alarm with location information to be sent to the staff members.

The location of the tag is determined by monitoring the signal strengths between Wi-Fi access points and the tag. Typically a Wi-Fi network that is designed for enterprise grade access point density allows for the locating of tags to within a few meters or room or bed level accuracy. For areas where the Wi-Fi coverage is poor the tag includes an infrared sensor that receives infrared signals from Ekahau Location Beacons. The beacon signals are combined with Wi-Fi signals to provide a very accurate location estimate that can pinpoint a patient’s location to his or her room or bed depending on the type of beacon used.



Features:

- Full two-way alerting and communication capabilities leveraging industry standard 802.11/Wi-Fi and IP communications protocols.
- Works indoors and outdoors, anywhere within your Wi-Fi network footprint.
- Resolution down to 1 meter, even in poor Wi-Fi coverage areas by leveraging inexpensive Ekahau Location Beacons.
- Works with the latest versions of Ekahau RTLS software
- Rechargeable long life lithium polymer battery
- Water resistant design

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Specifications:

- Wi-Fi compatibility: 802.11 b/g/n
- Dimensions: 49x40x15 mm
- Weight: 35 g
- Charging: Individual chargers and a 9 unit rack charger

Ekahau RTLS Solution:

- T301 tags
- Ekahau RTLS Controller
- Ekahau Vision Application



Healthcare



Retail



Logistics



Manufacturing



Government



Process Industries



Other Industries

Technical Specifications

Radio

Wi-Fi Standard: 802.11 b/g/n
 Modulation: DSSS (Direct Sequence Spread Spectrum)
 Media Access: CSMA/CA
 Output Power: +11dBm @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

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



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

Physical

Dimensions: 43,5 * 47,5 * 14,5mm / 1,7 * 1,9 * 0,6in
 Weight 35g / 1,2oz

Specifications subject to change without prior notice.

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