

Benefits

- Battery life up to 5 years
- Smartest two-way location and tracking device in its class
- Wireless configuration and maintenance
- Two call buttons for customized alarms and other notifications
- Small form factor, less than 2 oz/ 50 g

Ekahau T301-A Wi-Fi Tag



Ekahau RTLS solution:

- T301 -tags
- Ekahau Positioning Engine server
- Finder/Tracker Applications

Ekahau T301-A is a small battery powered active Wi-Fi tag for asset and people tracking. In conjunction with the Ekahau Real-Time Location System (RTLS), the tag provides accurate location using standard 802.11b/g infrastructure. It attaches to equipment or it can be carried in a pocket or worn as a wristband. Its small formfactor and weight allows mounting onto even small or unusually shaped objects. The dust and waterproof enclosure with rubber sealing allows the tag to be used outdoors or under dusty or humid conditions.

The T301-A Wi-Fi tag contains a system on chip (SoC) with an intelligent low power radio transceiver, ultra low standby current, and automatic motion detection. As a result, the tag lasts many years on two small batteries. Battery status is continuously monitored and the tag reports itself in when the battery condition reaches a pre-determined level.

The tag contains two configurable buttons for sending alarms or other messages from the tag to integrated applications. The tag's LEDs and buzzer can be remotely triggered for visually and audibly identifying the correct tag or for alerting personnel. The tag configuration and software can be managed remotely anywhere within the wireless network coverage area.

Features

- Battery life up to five years
- Works with any standard 802.11b/g infrastructure
- Low battery warning alerts
- Intelligent battery-life management with motion sensor
- Two programmable call buttons
- Remotely activated custom audio and LED signals
- Remote configuration and software upgrades
- Multiple mounting options

**Ekahau T301-A Wi-Fi Tag
Technical Specifications**



Technical Specifications

Wi-Fi Standard: 802.11b
 DSSS (Direct Sequence Spread Spectrum)
 Media Access CSMA/CA
 RCV Sensitivity -89dBm @2Mb (Typical)
 Output Power +18dBm
 Frequency Range: 2.412-2.484 GHz
 Network Protocol: UDP/IP, addressing DHCP or static
 Security: WEP 64/128 Bit

Electrical Interface

DC Power: 2xCR2 lithium batteries
 Antenna: 2 x omni-directional antennas
 Configuration: Over-the-air remote configuration

User Interface

Two call buttons
 Two red/green signal LEDs
 Optical tamper switch
 Customizable buzzer

Battery Life (estimates)

| Periodic scan-rate | Battery life |
|--------------------|----------------|
| 20 sec | 1 year |
| 15 min | 5 years |
| Motion activated | Up to 10 years |

Certifications

FCC: Part 15 (US and Canada), CE Mark (European Union),
 Telec Mark (Japan)
 Frequency Band
 Channels 1-11: North America
 Channels 1-13: Global
 Channels 1-14: Japan

Environment

Operating temperature: -40 to 140 °F / -40 to 60 °C
 Storage temperature: -40 to 140 °F / -40 to 60 °C
 Humidity: 95 % non-condensing, relative humidity
 Protection: dust and water proof enclosure, IP-65

Typical Operating Range

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

Physical

Dimensions: 1.8 x 2.2 x 0.7 in / 45 x 55 x 19 mm
 Weight: 1.8 oz / 50 g

Specifications subject to change without prior notice.

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