Ekahau A4+

Wi-Fi Asset Tag for Tracking Assets

The Ekahau A4+ is an active RFID location tracking tag that operates over standard-based, enterprise-grade Wi-Fi networks. In conjunction with the Ekahau Real Time Location System (RTLS), the tag enables location tracking of virtually any asset or object. Because the Ekahau A4+ operates on standard Wi-Fi networks, it does not require any extra infrastructure beyond your facilities' existing WLAN.

Industry-leading Location Accuracy

Using standard 802.11b/g 2.4GHz Wi-Fi networks, the Ekahau A4+ tracks assets in real-time. For applications requiring ultra-high location accuracy, such as hospitals, the Ekahau A4+ features infrared sensors to offer bed-level accuracy when used in combination with Ekahau's wireless location beacons.

Plug-in with Battery Back-up

The Ekahau A4+ leverages an external power supply that can use a USB adapter as a primary power supply. A built-in backup battery enables Ekahau A4+ tags to operate when the external power is temporarily diconnected.

Small and Smart

The Ekahau A4+ has a small form factor and weight. The design allows users to mount the Ekahau A4+ on small or odd-shaped objects. Mounting options include a custom cradle, zip ties, Velcro, or dual-sided tape.

The tag has two built-in, configurable buttons that can send alarms or event notifications to identified authorities. The Ekahau A4+ also contains a connector for two external switches or relays that can be used in the same way as the built-in buttons for added convenience. This option allows for the use of limited, custom cabling for sending on/off type status information over the wireless network.

The Ekahau A4+ tag can be configured and managed remotely anywhere in the enterprise without having to recall or touch the tag. It also includes a buzzer and LED light for local alerts.

Features

- High accuracy over your existing Wi-Fi network without additional cabling
- Infrared capability for additional accuracy without wires
- Small size to fit on small and odd-shaped assets
- Works on any Wi-Fi network (2.4GHz)
- Externally powered with back-up battery
- Various mounting options
- Two programmable buttons
- Connector for two external programmable buttons
- Audio and LED light alerting
- Over-the-air programming

Benefits

- Gain enterprise-wide asset visibility
- Find an asset instantly
- Reduce inventory and rental costs
- Improve staff efficiency
- Increase equipment utility

Technical Specifications

Radio

Supported Wi-Fi Networks: 802.11 b/g
Wi-Fi Chipset: 802.11g
DSSS (Direct Sequence Spread Spectrum)
Media Access CSMA/CA
RCV Sensitivity -90dBm @1Mbit/s (Typical)
Output Power +11,5dBm
Frequency Range: FCC, Canada, ETSI 2.4 - 2.4835 GHz
Network Protocol: UDP/IP, addressing DHCP or static
Security: WEP 40/104bit (equals 64/128bit) WPA2
Support for Ekahau Location Beacons

Electrical Interface

External power: 2.5-5.5V DC, min 1.5A
Backup battery: 1xCR2 lithium
Antenna: omni-directional antenna
Configuration: Over-the-air remote configuration.

User Interface

Two internal programmable buttons
Two external programmable buttons (switch/relay on max
1.5m cable)
Two LED indicators (red/green)
Buzzer
Motion detection

Certifcations

FCC/IC: Part 15 (US and Canada)
CE Mark (European Union)

Frequency Band

Channels 1-11: North America
Channels 1-13: Global

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

Physical

Dimensions: 1.8 x 2.2 x 0.7 in / 45 x 55 x 19 mm
Weight: 1.7 oz/ 48 g Mounting: double-sided tape, Velcro,
mounting plate (optional), hang mount (optional)

Specifications subject to change without prior notice.

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