AiRISTA FLOW

Ekahau LB2 Location Beacon

Wi-Fi location beacon for ultra-high location accuracy

The Ekahau LB2 location beacon is a cost-effective solution to refine the location accuracy of the Ekahau Wi-Fi based Real-time Location System (RTLS). The beacon is a small, portable, battery-powered transmitter that is designed to enhance system accuracy. The Ekahau LB2 is ideal for areas that have limited Wi-Fi coverage, but the requirements for sub-meter accuracy and the ultimate granularity are critical.

Ekahau location beacons refine the location accuracy to levels previously only available with expensive, proprietary systems that require wiring new infrastructure. For the typical hospital environment, the beacons provide highly reliable room- and bed-level accuracy in any areas with Wi-Fi coverage, without the need to install additional Wi-Fi access points or other wired infrastructure.

Ultra-high Sub-meter Granularity

The Ekahau LB2 can operate in five different modes:

- Room mode: fills a room with the location beacon signal providing room-level accuracy

- Sub-zone mode: creates a sub-zone inside a room enabling bed- or bay-level accuracy

- Bed-zone mode: creates a zone covering a typical hospital bed and its immediate surrounding

- Micro-zone mode: creates a very small zone inside a room enabling monitoring the usage of certain devices such as hand sanitizers or pinpointing items on a table or shelf

- Nano-zone mode: creates an extremely small zone, which can be used for example to control access

Because Ekahau Wi-Fi Tags recognize the Ekahau LB2, the Ekahau RTLS Controller (ERC) is capable of calculating and displaying the precise location of the tags. The Ekahau LB2 can be mounted on a wall or ceiling, and since they do not require any data or power cabling, they can be installed quickly, without any impact to the facility operations.

Features

- Battery powered, no cabling required

- Battery life up to 5 years

- No interference with any other wireless devices

- Location accuracy down to less than 3 feet or 1 meter

- Five operation modes and three transmission power levels to support a wide variety of different applications

- Signal penetrates fabrics

- Three different blink intervals for multiple real-time requirements

Benefits

- Easy to install with two screws

- No permits or power outlets required

- Delivers industry leading accuracy at a fraction of the cost

- Enhances system performance in areas that have limited Wi-Fi coverage

- Ekahau RTLS provides complete enterprise-wide location tracking and ultra-high granularity

Technical Specifications

Technology

38 kHz Infrared (IR)
Multiple focused beams for defining precise location areas
Advanced dispersion technology can flood the entire room or create a limited pattern

Battery

2 x 1.5 Volt standard alkaline C battery
Battery life: Up to 5 years with 4 sec transmission interval
Power jack for optional 3V / 1A power supply

User Interface

Operation mode button
Operation mode LEDs for:
– Room mode
– Sub-zone mode
– Bed-zone mode
– Micro-zone mode
– Nano-zone mode

Environment

Operating temperature:
32 to 122 °F / 0 to 50 °C
Storage temperature:
-40 to 140 °F / -40 to 60 °C

Physical

Dimensions:
4.9 x 2.6 x 2.0 in / 125 x 67 x 51 mm
Weight:
1.4 oz / 40 g (without batteries)
9.5 oz / 268 g (with batteries)

Mounting options

Ceiling / Wall mounting plate with simple installation
Double-sided tape
Vinyl ties

Specifications subject to change without prior notice.

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