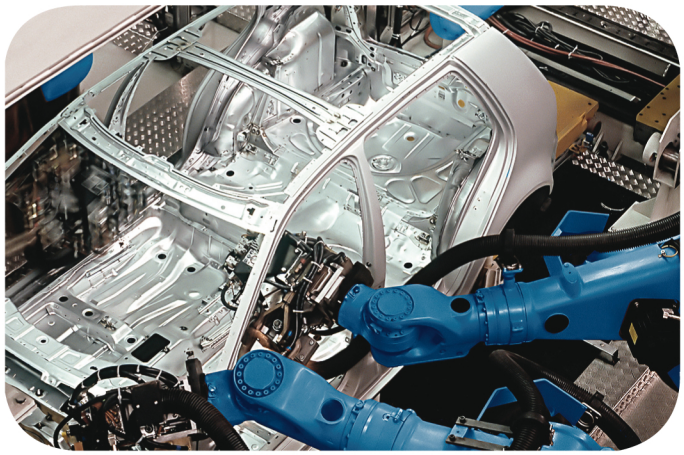
ekahau

T301i

Industrial Call Box



Wi-Fi call button – Ekahau T301i is a two-way wireless industrial call button

Ekahau's T301i is a wireless call button for two-way messaging in industrial environments. The T301i leverages existing standards based Wi-Fi infrastructure for communications, freeing the organization from pulling wires or using proprietary wireless infrastructure for traditional call buttons. Compared to hardwired solutions, Ekahau the T301i and the supporting software from Ekahau costs 50%-75% less than equivalent wired solutions.

The T301i has multiple uses in industrial environments from requesting parts, sending service requests to alerting and generally messaging in real-time. As the unit is wireless and utilizes the existing standards based wireless infrastructure, it can be easily moved to a new location, which supports assembly line or plant reallocations. Low deployment cost and flexibility enables widespread usage of the call button. This in turn allows the use of applications, which may not be feasible today with the cost structure related to hardwired or proprietary wireless solutions.

The shell of the T301i is water and dustproof and features a bright yellow enclosure for easy visible detection. The enclosure features four tabs for mounting the button in a desired location with cable ties, screws, wire, tie straps or double-sided VHB tape.

The user interface of the T301i consists of a call button and a Red/Green status indicator LEDs. The LEDs lights up immediately after pushing the button for indicating the call creation. After initiation of the call, the LED status can be remotely changed by using the two-way communication and a programming API in the management software. Through the API the LED status is changed to indicate a new state of the process, such as "call acknowledged" and "delivery in progress", can be notified back to the caller. This two-way communication architecture and programming API gives maximum flexibility and allows variable adjustments to the system.

The T301i runs on high energy batteries that give the device a multi-year lifetime in typical usage scenarios. Battery capacity is reported through the Ekahau Positioning Engine (EPE), which ensures real-time battery level monitoring. From EPE the battery capacity data is visible via a web user interface and an HTTP based API, which integrates the battery information with 3rd party applications.

Features

- **Two-way communication provides the caller with continuous feedback on process status**
- **Ruggedized design suitable for manufacturing environments**
- **Clear user interface with one call button and bi-color LED**
- **Works with standard 802.11 b/g/n network infrastructure**
- **Up to 5 years battery life**

Benefits

- **Two-Way communication for sending calls and receiving process status changes**
- **Battery powered with extended life-time up to 5 years**
- **Half of the cost of typical hardwired, powered solutions**
- **Easy implementation and flexible movement or remounting in support of operational process changes**
- **Leverages existing Wireless infrastructure rather than running hardwired or proprietary infrastructure**

Ekahau RTLS Solution:

- **T301 tags**
- **Ekahau Positioning Engine**
- **Vision End-User Application**

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Technical Specifications

Wi-Fi standard: 802.11b
DSSS (Direct Sequence Spread Spectrum)
Media Access: CSMA/CA
Output power: +17dBm
Frequency Range: FCC, Canada, ETSI 2.4 – 2.4835 GHz
Network protocol: UPD/IP, addressing DHCP or static
Security: WEP 64/128bit or WPA2-PSK (AES)

Electrical

2 x Lithium Thionyl Chloride

User interface

One call button
Two red/green signal LEDs

Environment

Operating temperature: 32 to 122 °F / 0 to 50 °C
Storage temperature: -40 to 140 °F / -40 to 60 °C
Dust and waterproof enclosure, IP 67

Typical Operating range

Open space: 500ft/150m @2Mbps
Closed office: 200ft/60m @2Mbps

Physical

Dimensions: 3.15 x 4.72 x 2.20 in / 80 x 120 x 56 mm
Weight: 12.2 oz / 347g

Mounting options

Industrial Velcro, or VHB tape
Screws or cable tie

Specifications are subject to change without prior notice.