

Data Sheet:

T14 Patient and Staff Badges

Adds Bi-directional Communication to Market
Leading Wi-Fi Badges

Product Description

The STANLEY Healthcare T14 Bi-directional Badges are components of the enterprise-level visibility solution based on standard Wi-Fi communication for location-based applications. The T14 Badges add further flexibility and scalability to locate patients and staff in real time across a wide variety of applications.

Once deployed, the badges use Wi-Fi bi-directional communication to receive firmware and configuration updates from MobileView. This removes the need to manually collect, update and re-deploy badges in the field.

The rechargeable battery-powered badges can be secured around a patient's wrist using standard hospital bands or worn by staff members using T14 Badge cradles.

In addition, the badges can be used for egress point detection, staff duress alerting, hand hygiene monitoring, patient flow and more.

Data from the badge is received and processed via standard Wi-Fi access points, keeping infrastructure costs low and installation simple. As with all badges, location is determined through a unique beaconing method that keeps network impact low, and ensures scalability and long battery life.

Key Features

Beaconing and Bi-directional Communication

The T14 Badges utilize lightweight beaconing communication (for standard messages) and Bi-directional Wi-Fi

communication with full network association and authentication (for advanced applications). This unique combination provides a flexible and scalable solution for advanced applications. The badges can operate with up to four different network SSIDs in a secure or non-secure mode and is able to store up to two network IPs. The T14 Badges also supports both static IP configuration and DHCP.

Wi-Fi Security

The Badges support 802.1x Enterprise security networks with PEAP-MSCHAPv2, WPA2-PSK with AES encryption and an open non-encrypted security mode.

Ultrasound Receiver

The Badges include an embedded ultrasound receiver able to receive signals from ultrasound Exciters. Exciters transmit ultrasound signals, which do not pass through walls, thus helping deliver location reports at room-level accuracy. The Badges capture the signals and report their exact location over the Wi-Fi network.

Rechargeable battery

The badges have a rechargeable battery that provides up to 3 weeks battery life*. The Badges are able to report their battery level which is displayed in MobileView. The Badges also have a motion sensor to conserve battery life when the badge is not in motion. Badges are charged using the T14 Badge Charging Station (See the T14 Badge Charging Station Data sheet for more information).

*Battery life depends on badge type and configuration.



Product Highlights

- Lightweight, small form factor and ergonomic design
- Beaconing communication methods allows long battery life and highly scalable deployments with minimal network impact
- Bi-directional communication for over-the-air updates
- Broad functionality, including motion sensing, egress point detection and optional call button
- Optional embedded ultrasound receiver able to deliver location reports at room-level accuracy
- Supports 802.1x Enterprise security (PEAP-MSCHAPv2) and WPA2-PSK with AES encryption
- Water and dust proof

Small Form Factor with Ergonomic Design

The Badges small and ergonomic design provides ease of use and patient and staff comfit.

Egress Point Detection

When combined with STANLEY Healthcare Exciters, the T14 Badges provide instant notification when a patient or staff member passes through an egress point, such as a gate, doorway or other tightly defined area.

Rugged Performance

The T14 Badge enclosure is designed for durability, is water and dust proof and is able to withstand impacts*. The badges can be worn while taking a shower or bath.

*See product specifications for IP rating.

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Visual & Audio Indications

T14 Badges include a dual-color LED which enables distinct visual indications for specific use cases. Audio indications (T14 Staff Badge only) occur when the call button is pressed or a Bi-directional acknowledgment is received (Staff Protection).

Badge Management

The badges are easily configured and activated wirelessly using the Tag Manager BD application and a Tag Activator or TED device, which are part of the Hardware Manager Kit. The badges can then be reprogrammed using Bi-directional communication via MobileView.

Call Button

T14 Badges include a call button that can trigger an event in MobileView. MobileView events can be defined according to specific button press patterns, such as long press, short press and double press.

Easy Attachment

The badges are easily secured to a patient's wrist using standard hospital bands or worn by staff members using a T14 Badge cradle.



T14 Patient Badge



T14 Staff Badge

Product Specifications

| | | |
|-------------------------|---|--|
| Part Numbers | Staff Badge: SKU: TAG-1410-CUB | Includes Call Button, Ultrasound Receiver and Buzzer |
| | Patient Badge: SKU: TAG-1410-CU | Includes Call Button and Ultrasound Receiver |
| Range | Outdoor range: Up to 200m (650 feet) Indoor range: Up to 80m (260 feet) | |
| Physical and Mechanical | Dimensions: 1.6 x 1.4 x 0.6 inch (41x 36 X 15 mm) Weight: 16g (0.56oz) | |
| Radio | 802.11 b/g compliant (2.4 GHz) Low frequency receiver for chokepoint detection (125kHz) Transmission power: Up to +19dBm (~81mW) Patented clear channel sensing avoids interference with wireless networks | |
| Wi-Fi Security Modes | Open, non-encrypted WPA2-PSK(AES) 802.1x Enterprise security (PEAP-MSCHAPv2) | |
| Ultrasound Receiver | Frequency 40 kHz | |
| Programmability | Badge configurations* Transmission channels IP Settings *After initial setup, configuration changes are done over-the-air via MobileView. | |
| Environmental | Temperature: 0°C to 50°C (32°F to 122°F) Humidity: 0% to 95% RH non-condensing Ingress Protection Rating: IP-67 | |
| Electrical | 4.2V Lithium Polymer rechargeable battery (non-replaceable) Battery life: Up to 3 weeks of use, depending on badge type and configuration. | |
| Certifications | Radio: FCC Part 15, sub-part C class B, sub-part B EN 300-328, EN 300-330, EN 301-489, RSS 210 (Canada) Safety: CE, cTUVus (EN60950) EN 60601-1-Rev3 | |
| Accessories | T14 Badge Cradle with vinyl clip (50 pack) | SKU: TAC-140 |
| | T14 Staff Badge Cradle with back clip (20 pack) | SKU: TAC-144 |
| | Retractable Badge reel for T14 Staff Badge cradle(20 pack) | SKU: TAC-143 |
| | Tag Wrist Strap (50 pack) | SKU: TAC-223 |
| | T14 Heavy Duty Wrist Straps (50 pack) | SKU: TAC-224 |
| | T14 Badge plastic housing with Ultrasound and Call Button (20 pack) | SKU: TGH-1400-CU |
| | T14 Badge Charging Station | SKU: CGS-1400 |
| | Hardware Manager Kit for the configuration of Tags and Exciters | SKU: HWM-1000 |
| | Charging Station chaining Cable | SKU: CAB-1400 |
| | Bi-directional Tags Firmware Versions download | KB Article 7606 |