



T12sb Asset and Patient Tag

DATA SHEET



Bi-directional Wi-Fi Tag for Asset Management and Patient Flow

PRODUCT HIGHLIGHTS

- Quick and simple battery replacement (uses commercially available batteries)
- Leverages standard Wi-Fi infrastructure for low total cost of ownership and ease of deployment
- Convenient deployment using Deployment Manager for initial tag setup
- Bi-directional communication for over-the-air updates
- Supports configurable audio and visual indications for events/actions
- Supports 802.1x Enterprise security (PEAP-MSCHAPv2) and WPA2-PSK with AES encryption
- Supports RADIUS Server authentication
- Embedded ultrasound receiver able to deliver location reports at room level accuracy
- Advanced tamper-proofing mechanism
- Various mounting and wearing options
- Rugged performance

DESCRIPTION

The T12sb Bi-directional Tag is a component of Securitas Healthcare's suite of enterprise visibility solutions for location-based applications. The battery-powered tag with a quick battery replacement process adds further flexibility and scalability to track assets while providing an augmented level of safety to patients.

Once deployed, the tag uses its bi-directional functionality to receive firmware and configuration updates from MobileView®. This removes the need to manually collect, update and re-deploy tags in the field.

The T12sb Tag can be attached to a variety of medical equipment such as infusion pumps, defibrillators, and portable X-Ray equipment. This allows for advanced locating, tracking and monitoring of healthcare equipment for inventory management, preventative maintenance, shrinkage control, recall management and more.

In addition, the tag can be used with the Patient Flow solution allowing patients to use the call button. An optional Ultrasound version is available that can deliver location reports at room-level accuracy. The tags support audio and LED indications for events.

The T12sb Tag data is received and processed via standard Wi-Fi access points, keeping infrastructure costs low and installation simple. As with all tags, location is determined through a unique beaconing method that keeps network impact low and ensures scalability and long battery life.



T12sb Tag in Asset cradle



T12sb Tag in Patient cradle with a wristband



Key Features

QUICK BATTERY REPLACEMENT

The T12sb Tag uses commercially available CR2 batteries that can be easily changed without any unscrewing, just open the tag battery door and replace it. After replacement, the battery counter is automatically reset.

LONG BATTERY LIFE

The T12sb Tag battery provides up to 2 years battery life*. The tag is able to report its battery level which is displayed in MobileView. The T12sb Tag also has a motion sensor to conserve battery life when the tag is not in motion.

*Battery life depends on configuration.

BEACONING AND BI-DIRECTIONAL COMMUNICATION

The T12sb Tag utilizes lightweight beaconing communication and bi-directional Wi-Fi communication with full network association and authentication. This unique combination provides a flexible and scalable solution for advanced applications. The tag 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 tag also supports both static IP configuration and DHCP.

WI-FI AND CYBER SECURITY

The tags support 802.1x Enterprise security networks with a PEAP-MSCHAPv2 protocol including authentication with a RADIUS server and WPA2-PSK with AES encryption. Additionally, they support a HTTPS connection with MobileView Servers using the TLS1.2 protocol. This allows a secure MobileView Server authentication using pre-installed X.509 certificates.

ADVANCED TAMPER-PROOFING

Tags are supplied with an advanced tamper-proofing mechanism for security, which triggers an immediate alert if removed or tampered with in anyway.

EGRESS POINT DETECTION

When combined with Securitas Healthcare Exciters, the T12sb Tag provides instant notification when a tagged asset passes through an egress point, such as a gate, doorway or other tightly defined areas. Additionally the tag's behavior can be automatically modified while passing through an egress point, such as activating/deactivating the tag, or changing the tag's transmission rates to accommodate different usage scenarios.

RUGGED PERFORMANCE

The T12sb Tag passes Securitas Healthcare's internal testing to IP-66.

AUDIO/VISUAL INDICATION

The T12sb Tag includes a dual-color LED which enables distinct visual indications for specific use cases. The tag also includes a buzzer that provides audio indications for button presses.

TAG MANAGEMENT

The tag is easily configured and activated wirelessly via the Deployment Manager application. The tags can then be reprogrammed using bi-directional or BLE communication via MobileView.

CALL BUTTON

The tag can be easily activated by pressing its call button. Additionally, the large call button can be used to trigger events in MobileView. MobileView events can be defined according to specific button press patterns, such as long press, short press, and double press.

ULTRASOUND RECEIVER

T12sb Tag has 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.

T12sb Tag with embedded ultrasound receivers, captures the signals and reports their exact location over the Wi-Fi network.

FLEXIBLE MOUNTING, WEARING, AND USAGE OPTIONS

A wide variety of mounting options are available for the T12sb Tags, such as cradles, adhesives, tie-wraps and screws. The supplied cradles allow indirect mounting of the tags on a wide variety of assets and in various environments.

There is also a wearable option for patients using a cradle and a wristband.



Product Specifications

Model Name	T12sb Asset and Patient Tag
Product Types	T12sb Wi-Fi Ultrasound Tag with Call Button SKU: TAG-1200SB-CUT T12sb Wi-Fi Tag with Call Button SKU: TAG-1200SB-CT
Environmental Specifications	Operating Temperature Range: -0°C to +50°C (32°F to +122°F) Storage Temperature Range: -40°C to +85°C (-40°F to +185°F) Humidity: 0% to 95% RH non-condensing Ingress Protection Rating: Passes Securitas Healthcare's internal testing to IP-66
Physical & Mechanical	Dimensions: 44mm x 34mm x 20mm (1.7 x 1.3 X 0.78 inch) Weight: +/- 33g (1.16oz)
Electrical	Battery: 1 x CR2 1000mAh replaceable battery
Audio & Visual Indications	Audio: 54dBA@1 meter LEDs: Dual-color LEDs (red & green)
Radio	802.11 b/g compliant (2.4 GHz) BLE 5.0 (2.4GHz) Low frequency receiver for chokepoint detection (125kHz) Ultrasound receiver for room level (40kHz)
Wi-Fi Security Modes	WPA2-PSK (AES) 802.1x Enterprise security (PEAP-MSCHAPv2)
Range	Outdoor range: Up to 200m (650 feet) Indoor range: Up to 80m (260 feet)
Programmability	Tag configurations*using MobileView and Deployment Manager Type, Ultrasound, Transmission interval, Transmission Channels IP Settings Application Servers Wi-Fi Settings for bidirectional communication *After initial setup, configuration changes are done over-the-air via MobileView.
Certifications	Radio, EMC: FCC Part 15, sub-part C class B, sub-part B EN 300-328, EN 301-489, RSS 210 (Canada) Radio Equipment Directive 2014/53/EU (RED), Radio Equipment Directive S.I.2017/1206 (RED), RoHS 2 Directive 2011/65/EU, RoHS 2 Directive S.I.2012/3032 Safety: CE, UKCA, EN62368/UL62368/IEC62368, Japan 201-200209

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