



T12s Asset Tag

DATA SHEET

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

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
- Bi-directional communication for over-the-air updates
- Broad functionality, including motion sensing, egress point detection and call button
- Supports 802.1x Enterprise security (PEAP-MSCHAPv2) and WPA2-PSK with AES encryption
- Embedded ultrasound receiver able to deliver location reports at room level accuracy
- Advanced tamper-proofing mechanism
- Various mounting options
- Rugged performance



DESCRIPTION

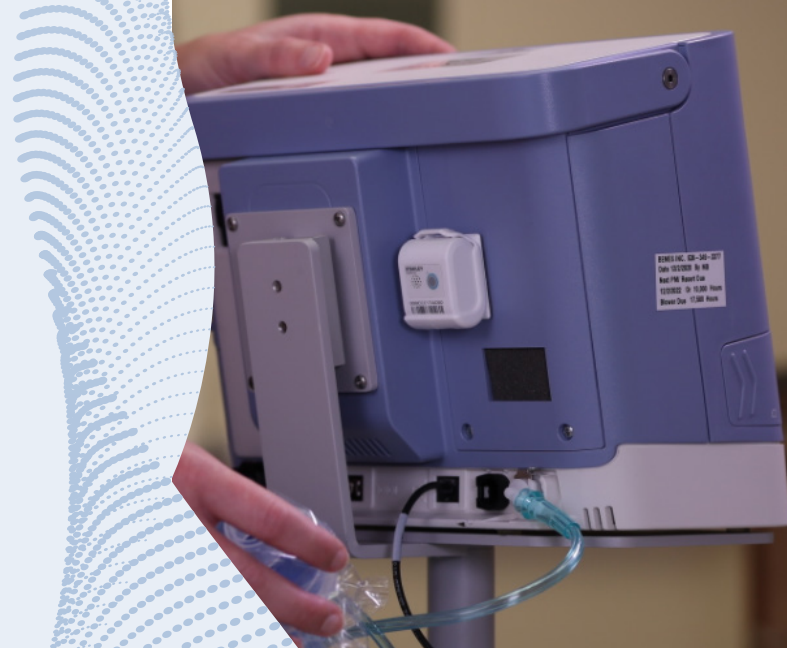
The T12s Bi-directional Asset Tag is a component of Securitas Healthcare's suite of enterprise visibility solutions for location-based applications. The battery-powered tag with a quick battery replacement process adds further flexibility and scalability to track assets across a wide variety of applications.

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 T12s Tag can be attached to a variety of medical equipment such as infusion pumps, defibrillators, and portable X-Ray equipment. Assets are accurately tracked in real-time, facilitating inventory control, rental management, and efficient preventive maintenance.

In addition, the T12s Tag can be used for egress point detection, call-button alerting, and more. T12s Asset Tags have an embedded Ultrasound receiver able to deliver location reports at room-level accuracy.

The T12s 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.





Key Features

QUICK BATTERY REPLACEMENT

The T12s 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 T12s Tag battery provides up to 2 years battery life*. The tag is able to report its battery level which is displayed in MobileView. The T12s 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 T12s Tag utilizes 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 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 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 T12s 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 T12s Tag passes Securitas Healthcare's internal testing to IP-54.

VISUAL INDICATION

The T12s Tags include a dual-color LED which enables distinct visual indications for specific use cases.

TAG MANAGEMENT

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

CALL BUTTON

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

ULTRASOUND RECEIVER

T12s Tags have 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. T12s Tags with embedded ultrasound receivers, capture the signals and report their exact location over the Wi-Fi network.

FLEXIBLE MOUNTING AND USAGE OPTIONS

A wide variety of mounting options are available for the T12s 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.





Product Specifications

Model Name	T12s Asset Tag
Environmental Specifications	<p>Operating Temperature Range: -0°C to +50°C (32°F to +122°F)</p> <p>Storage Temperature Range: -40°C to +85°C (-40°F to +185°F)</p> <p>Humidity: 0% to 95% RH non-condensing</p> <p>Ingress Protection Rating: Passes Securitas Healthcare's internal testing to IP-54</p>
Physical & Mechanical	<p>Dimensions: 44mm x 34mm x 20mm (1.7 x 1.3 X 0.78 inch)</p> <p>Weight: +/- 33g (1.16oz)</p>
Electrical	Battery: 1 x CR2 1000mAh replaceable battery
Visual Indications	LEDs: Dual-color LEDs (red & green)
Radio	<p>802.11 b/g compliant (2.4 GHz)</p> <p>Low frequency receiver for chokepoint detection (125kHz)</p> <p>Transmission power: Up to +18dBm</p> <p>Patented clear channel sensing avoids interference with wireless networks</p>
Wi-Fi Security Modes	<p>WPA2-PSK(AES)</p> <p>802.1x Enterprise security (PEAP-MSCHAPv2)</p>
Ultrasound Receiver	Frequency 40kHz
Range	<p>Outdoor range: Up to 200m (650 feet)</p> <p>Indoor range: Up to 80m (260 feet)</p>
Programmability	<p>Tag configurations*</p> <p>Transmission Channels</p> <p>IP Settings</p> <p>Application Servers</p> <p>Wi-Fi Settings</p> <p>*After initial setup, configuration changes are done over-the-air via MobileView.</p>
Certifications	<p>Radio, EMC:</p> <p>FCC Part 15, sub-part C class B, sub-part B</p> <p>EN 300-328, EN 301-489, RSS 210 (Canada)</p> <p>Radio Equipment Directive 2014/53/EU (RED), Radio Equipment Directive S.I.2017/1206 (RED),</p> <p>RoHS 2 Directive 2011/65/EU, RoHS 2 Directive S.I.2012/3032</p> <p>Safety:</p> <p>CE, UKCA, EN62368/UL62368/IEC62368, Japan 201-200209</p>

T12 Asset Tag Ordering SKUs

SKU: TAG-1200S- CT	T12s Asset Management Tag with Call Button
SKU: TAG-1200S-CUT	T12s Asset Management Tag with Call Button and Ultrasound

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