STANLEY
Healthcare

T2 Tag

Market Leading Wi-Fi Tags Enable Asset Tracking, Real-Time Location and a Broad Range of Applications

Overview

The AeroScout T2 Tag is the market's leading Wi-Fi Tag, with more units deployed than any other tag of its kind. The T2 Tag has proven usability, dependability and scalability as well as the flexibility to enable a wide variety of valuable applications for many industries.

These rugged, battery-powered tags can be attached to people and to a variety of equipment, such as medical devices, containers, manufacturing equipment and vehicles. This enables tagged items to be accurately located in real-time and in any environment – from tight indoor locations such as hospital floors to open outdoor spaces such as parking lots. In addition, the same tag can be used for immediate chokepoint detection, call-button alerting, telemetry applications and more.

T2 Tag messages are received and processed by standard Wi-Fi access points as well as Location Receivers, keeping infrastructure costs low and installation simple. As with all tags, location determination is performed through a unique beaconing method that keeps network impact low and ensures scalability and long battery life. T2 Tags are ideal for asset tracking and for a broad range of applications that streamline business processes and improve operations.

Key Features

Wi-Fi Compatibility
T2 Tags use any standard Wi-Fi network infrastructure, keeping costs low and making deployments simple and fast. The tags can be used to determine the location and status of mobile assets and people, and their wireless messages are received by Wi-Fi access points. T2 Tags utilize a unique beaconing method (instead of associating with networks) that keeps network impact low and ensures scalability and long battery life.

Long Battery Life
The T2 Tag has a single, user-replaceable battery. The tag provides a report, which is displayed in MobileView, on its battery level for timely battery replacement. The T2 Tag also has a motion sensor to conserve battery life when the tag is not in motion.

Chokepoint Detection
Combined with Exciters, T2 Tags provide instant notification when a tagged asset or person passes through a gate, doorway or other tightly-defined area. Tag behavior can also be automatically modified when passing through a chokepoint. This includes activating/deactivating tags, or changing transmission rates to accommodate different usage scenarios.

Call Button
An optional call button provides the capability to define events according to button pushes – such as for emergency alerting or parts replenishment. Multiple messages can be set up using different button-push patterns.

Product Highlights

- Leverages standard Wi-Fi infrastructure for low total cost of ownership and ease of deployment

- Beaconing communication method allows long battery life and highly scalable deployments with minimal network impact

- Suitable for a wide variety of industries and environments

- Broad functionality includes motion sensing, chokepoint detection and call buttons

Motion Sensing
The T2 Tags contain on-board motion sensors. The motion sensor can be configured to trigger alerts. It also enables different transmission intervals for tags when they are stationary or in motion – which reduces unnecessary network traffic and conserves battery life.

Telemetry Functionality
T2 Tags include a serial interface that enables data retrieval from host devices. The tags can be customized and configured to retrieve data such as mileage, pressure measurements or operational status and to transmit that information.

Data Sheet: T2 Tag

Rugged Performance
T2 Tags are designed to function in harsh work environments and weather conditions. The tag enclosure is water-resistant (IP65 rated) and designed to withstand significant physical shocks. An intrinsically-safe version is also available for environments with special safety requirements such as oil refineries or mines.

Tag Programmability and Storage
Up to 15 messages of 15 bytes each can be programmed onto the T2 Tag. The messages can be programmed by the Tag Manager Application or on the fly by an Exciter when a tag is in proximity of it. These messages can be transmitted and received wirelessly.

Visual Indication
An optional multi-LED (with three LEDs) feature enables distinct visual indication of an asset for specific use cases.
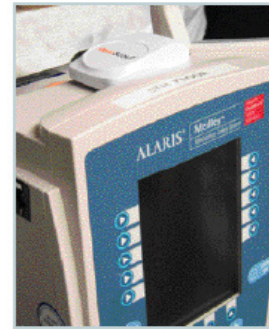
Tag Management
T2 Tags are easily configured and activated, wirelessly, using the Tag Manager Application together with a Tag Activator or TED device, which are part of the Hardware Manager Kit.

Flexible Mounting and Usage Options
A wide variety of mounting options are available for the T2 Tags. Screw mounts, adhesives, Velcro and tie-wraps are available, as well as wrist straps. An optional cradle allows the indirect mounting of the tag on a wide array of assets and in various environments.

T2 Tag in an optional cradle

T2 Tag mounted on an infusion pump

T2 Tag Specifications	
Performance	Outdoor range: Up to 200m (650 feet) Indoor range: Up to 80m (260 feet)
Physical & Mechanical	Dimensions: 62mm x 40mm x 17mm (2.4in x 1.6in x 0.7in) Weight: 35g (1.2oz)
Radio	802.11 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
Programmability	Transmission interval is configurable, 1 sec to 3.5 hours Channel programmable Wireless tag programming
Environmental	Temperature: -30°C to +75°C (-22°F to +167°F) Humidity: 0 to 100%, condensing IP65 rated: the housing is water and dust resistant and includes a rubber lining
Electrical	3.6V Lithium ½AA battery (replaceable)
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) ARIB STD-T66 (Japan), ARIB STD-33 (Japan), MIC (Korea) Safety: CE, cTUVus (EN60950)
Intrinsically Safe Certifications (Optional)	ATEX certified - gas group IIB ATEX certified - gas group IIC ATEX certified - mining group I FM certified – class I, II, III MSHA certified

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