

Data Sheet:

T3 Tag

Flat Form Factor and Advanced Features for Wi-Fi Tags

Overview

The AeroScout T3 Tag is the most advanced Wi-Fi Tag on the market, from the market leader in Unified Asset Visibility. The T3 Tag is a small, battery-powered wireless device for accurately locating and tracking any asset or person.

AeroScout tags utilize any standard Wi-Fi network to track high-value assets and people in real time, in any environment – from tight indoor locations such as hospitals and manufacturing floors to open outdoor locations such as parking lots and shipping yards. When combined with MobileView, the complete Visibility solution delivers cost savings, improved business processes, enhanced safety and operational efficiency.

The T3 Tag combines a streamlined, flat form factor with long battery life, advanced functionality and high flexibility, resulting in the most advanced tag available for all asset and people tracking needs.

Key Features

Small, Convenient Size

The low-profile “credit card” sized tag can be placed on nearly any asset without interfering with normal operations. The unobtrusive form factor easily attaches to a variety of equipment, such as medical devices, IT equipment, containers, manufacturing equipment and vehicles, and is ideal for use with people as a clip-on badge.

Long Battery Life

Replaceable batteries provide up to four years of battery life. The Tag automatically reports its battery level for timely replacement. The AeroScout T3 Tag can also be automatically activated or deactivated in the field, and can utilize the built-in motion sensor to extend battery power even further.

Seamless Indoor-Outdoor Reliability

AeroScout tags uniquely provide integrated RSSI (Received Signal Strength Indication) and TDOA (Time Difference of Arrival) location options, functioning seamlessly and accurately in any environment. This means that the same tag can track and manage assets in real time across a variety of industries and needs, from aerospace manufacturers tracking parts in an aircraft hangar, to hospitals locating patients across an indoor/outdoor campus, to automotive distributors tracking cars on a lot.

Choke-point Detection Capabilities

Using an Exciter, distinct tag presence can be automatically detected and behavior modified as the tag passes through a choke-point, such as a doorway or gate. This includes turning tags on/off, or changing tag transmission rates. In addition, choke-points enable precise real-time alerts, through the MobileView software.



Product Highlights

- 4 year battery life
- Flat, compact size
- 2 call buttons for alerting and status reporting
- On-board motion sensor
- Flexible telemetry capabilities
- Advanced tamper-proofing mechanism
- Rugged design
- Flexible mounting options
- Choke-point detection

Call Button Messaging and LED Indicators

The T3 tag includes two fully configurable call buttons, enabling advanced functionality such as emergency reporting, parts replenishment, or triggering alarms based on the press of a button. The tag’s two LED lights deliver an additional means of asset and location management with varied light indications, and the ability to remotely distinguish an individual asset.



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Sensor and Telemetry Capabilities

The T3 tag's built-in motion sensor intelligently conserves battery life and offers enhanced tracking, by enabling separate transmission intervals for tags when they are stationary or in motion. T3 Tags also include an external serial interface for data retrieval from host devices. The tags can retrieve valuable data such as fuel gauge, mileage, or pressure measurements from the host periodically, and send data wirelessly appended to the location messages.

Tag Management

T3 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.

Rugged and Safe Performance

AeroScout Tags are designed to handle tough work environments such as manufacturing floors and weather-prone outdoor areas. The standard tag enclosure is IP65-rated for advanced durability, water-resistance, and can withstand significant physical shocks and drops.

Compatibility

AeroScout T3 Tags are 802.11 compatible, and feature the lowest impact on the Wi-Fi network of any tag on the market. The Tag's channel sensing techniques avoid interference with over-the-air Wi-Fi data.

Flexible Mounting and Usage Options

The Tag's small size and weight and convenient form allow mounting on a variety of assets and people. Mounting accessories include personnel badge clips, adhesives and a sturdy mounting plate.

Tamper-Proofing

The AeroScout T3 tag includes an advanced tamper-proofing mechanism for security and theft prevention, triggering an immediate alert if it is removed or tampered with in any way.

T3 Tag Specifications

Performance	Outdoor range: Up to 200m (650 feet) Indoor range: Up to 80m (260 feet)
Physical & Mechanical	Dimensions: 74mm x 50mm x 10 mm (2.91in x 1.97in x 0.39in) Housing: IP-65 rated enclosure
Radio	802.11compliant (2.4 GHz) RFID low frequency receiver (125kHz) Transmission power: up to +19dBm (~81mW) Clear channel sensing avoids interference with wireless networks
Programmability	Transmission interval programmable, 1 sec to 3.5 hours Channel programmable Wireless tag programming Infrared compatibility for firmware upgrade
Environmental	Temperature: -30°C to +75°C (-22°F to +167°F) Humidity: 0 to 100%, condensing Housing is water and dust resistant and includes a rubber lining
Electrical	3.6V Lithium battery (replaceable) Battery life: up to 4 years (dependent on use and other factors)
Certifications	Radio: FCC Part 15, sub-part C class B, sub-part B (US) EN 300-328, EN 300-330, EN 60601 / IEC 6100 (Visit website for updated certification and regional specific information) ARIB (Japan) Safety: CE, cTUVus (EN 60950)