



AeroScout T2-EB Industrial Tag

Streamlined model for rugged environments with extended battery life

Overview

AeroScout's family of Wi-Fi-based Active RFID Tags are the leading tags on the market, from the company that originated the Wi-Fi tag industry. AeroScout Tags are small, long-life Active RFID devices that can be placed on any asset or person, enabling the Wi-Fi network to accurately locate it.

The AeroScout T2-EB Industrial Tag is a streamlined model for industrial environments and equipment that require an extended life and rugged design. The T2-EB model has been specifically designed to endure extremely high levels of rugged usage. The tag can be attached to a wide variety of equipment and is resistant to the indoor and outdoor environmental hazards associated with industrial, shipping or high traffic environments. The tag also features an 8 year battery life, ensuring that the tags can remain in the field for extended periods of time. This enables manufacturing equipment, vehicles and other assets to be accurately located in real-time without concerns or frequent replacement.



AeroScout tag messages can be received and processed by standard wireless access points as well as AeroScout Location Receivers, keeping infrastructure costs low and installation simple. Like all AeroScout Tags, the T2-EB can be used for choke-point location, telemetry applications and more. AeroScout MobileView, the system's enterprise software layer, allows end users to utilize location data from the tags to improve business processes and better utilize assets.

Locate people, assets and mobile equipment in Wi-Fi environments:

- Battery life up to 8 years
- Rugged design
- Choke-point detection capability
- Motion sensor
- Data storage capability
- Wireless programmability and tag management

Key Benefits and Features

Rugged Performance

AeroScout Tags are designed to handle high levels of "wear and tear" associated to work environments such as manufacturing and outdoor applications. The form-factor design and material is structured for shock absorbing and incorporates a soft sponge material layer surrounding the tag which increases the durability and resistances to harsh levels of usage.

The Tag enclosure is dust protected/water-resistant to withstand significant physical use. The tag was tested for a wide array of hard impact shocks, continuous vibrations at varied levels and free-fall drops up to 2m with consistent performance under these conditions.

Long Battery Life

A single replaceable battery provides up to 8 years of battery life. The Tag provides a report on battery levels for timely replacement. The AeroScout T2-EB Tag can also be automatically activated or deactivated for conserving battery power.

Choke-point Detection Capabilities

Using the AeroScout Exciter, distinct tag presence can be automatically detected and behavior can be 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.

On-board Motion Sensor

The motion sensor can conserve battery life, trigger alerts and offer enhanced real-time tracking by enabling separate transmission intervals for tags when they are stationary or in motion, which also reduces unnecessary network traffic.

Tag Management

The AeroScout T2-EB Tag can be programmed via a wireless interface and in batches of up to 50 tags at a time using the Tag Activator device. The Tag Manager software allows for easy and efficient tag configuration, activation or deactivation and programming for fast deployment and ease of use.

Compatibility and Non-Interference

AeroScout Tags are 802.11 compatible. The Tag's channel sensing techniques avoid interference with Wi-Fi networks. The use of the 2.4GHz frequency band at low power levels ensures no interference with other wireless equipment, making AeroScout Tags safe for use with such sensitive equipment as medical devices in a hospital.

Tag Programmability and Storage

The T2-EB Tag can store up to 10 messages of 10 bytes each. These messages can either be pre-programmed by the Tag Manager software or programmed on the fly by an AeroScout Exciter when a tag is in proximity.

Flexible Mounting and Usage Options

The tag comes in a convenient form with two flanges and a flat back, allowing mounting on a variety of assets using screws, tie wraps or adhesive.



T2-EB Tag in use at City Link, UK

T2-EB Tag Specifications

PERFORMANCE

Outdoor range: Up to 200m (600 feet)

Indoor range: Up to 60m (180 feet)

PHYSICAL AND MECHANICAL

Dims: 85mm x 59mm x 19mm (3.35" x 2.32" x .75"), 113mm length (4.45") with flanges

Weight: 85g (3oz)

Housing: IP-65 rated enclosure

RADIO

802.11b/g radio compliant (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, 128 msec-3.5 hours

Channel programmable

Wireless tag programming

ENVIRONMENTAL SPECIFICATIONS

Temperature: -30°C to +75°C (-22°F to +167°F)

Humidity: 0 to 100%, condensing

Housing is water and dust resistant

ELECTRICAL

3.6V Lithium AA battery (replaceable)

Battery life: up to 8 years (dependent on use and other factors)

- 7.5 years (transmission every 5 minutes)
- 6 years (transmission every 1 minute)
- 4.5 years (transmission every 30 seconds)

CERTIFICATION

Radio: FCC Part 15, sub-part C class B, sub-part B, EN 300-328, EN 300-330, EN 301-489

ACCESSORIES

AeroScout Tag Activator

AeroScout Tag Manager software

Mounting: Enclosure includes two flanges for using screws or tie wraps. A cage plate mount is also available.

WARRANTY

Ninety (90) day limited warranty (not including battery)

*Optional

Ordering Information

For ordering and pricing information on the AeroScout T2-EB Tag, contact AeroScout at info@aeroscout.com and refer to the AeroScout T2 Tag line of products (BWH-3000-EB for tag, TAC-018 for cage plate mount).

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