> T6 GPS Tag

Combines GPS and Wi-Fi for Large Outdoor Environments

> Product Description

The AeroScout T6 GPS Tag is a first of its kind solution that combines GPS and Wi-Fi for improved operations in large outdoor environments. The Tag is a battery-powered, wireless device that uses GPS to determine location and standard Wi-Fi to transmit the location and other valuable information to the customer's 802.11b/g-compatible Wi-Fi network. The T6 GPS Tag is an ideal solution for organizations that need accurate location information for asset management in outdoor areas with minimal or basic Wi-Fi coverage. The Tags help customers improve productivity and operational efficiency, while leveraging Wi-Fi infrastructure to keep total costs low.

The T6 GPS Tag is part of AeroScout's Unified Asset Visibility (UAV) solution that combines multiple data sources and technologies into one Wi-Fi-based system. The T6 GPS Tag is perfect for large outdoor storage areas, yards, airports, seaports, vehicle distribution centers and disaster triage areas, where it is important to manage inventory, equipment and personnel.

In addition, AeroScout offers an intrinsically safe (IS), explosion proof version of the T6 GPS Tag, which is specifically built to deliver high-value asset tracking, while meeting strict international regulatory certifications for ensuring safety in hazardous environments. The AeroScout T6 IS GPS Tag is the most advanced asset visibility solution for oil, gas and chemical facilities. The T6 IS GPS Tag solution significantly improves plant efficiency and productivity by tracking valuable equipment, such as Load-Haul-Dump (LHD) loaders, machines, vehicles, assets, and so on.

AeroScout's T6 GPS Tags track assets in virtually any outdoor environment

T6 GPS Tag Highlights

- Leverages GPS and Wi-Fi for low total cost of ownership and ease of deployment
- Works in virtually any outdoor environment such as large yards, outdoor storage facilities, airports, seaports, vehicle distribution centers, among others.
- Includes motion sensors and motion-activated capabilities
- Provides accurate location information in areas with minimal Wi-Fi coverage
- Optional: Intrinsically-Safe version for operation in hazardous environments

> Key Benefits

Wi-Fi and GPS

The innovative tag combines GPS and Wi-Fi to provide accurate and cost-effective asset management solutions. T6 GPS Tags are attached to high-value assets for visibility and status management. The Tags use standard Wi-Fi networks to transmit asset location and other valuable information to the customer's network. The solution leverages both GPS and Wi-Fi to keep total costs low.

Outdoor Location Reliability

AeroScout's T6 GPS Tags work in virtually any outdoor environment. They are well suited for areas where the Wi-Fi infrastructure is sparse and difficult to supplement with access points, poles, posts, and power. In other words, the T6 GPS Tags allow accurate asset location without the need for dense infrastructure. Environments that have previously been challenging for asset management, such as airports, seaports, vehicle distribution centers, large yards, outdoor storage facilities, and disaster triage areas now have a solution that is simple and accurate.

Mobile and Ruggedized Form-Factor

AeroScout's T6 GPS Tags are battery powered, allowing them to be mobile and easily deployed. They use standard, commercially available batteries for ease of replacement. The tags have multiple mounting options for different types of host assets and environments.

Intrinsically Safe (IS) for Hazardous Environments

The battery-powered T6 IS GPS Tags provide intrinsically-safe operation in Class I, Division 1, Groups A, B, C, and D Hazardous (Classified) locations. Such Tags ensure temperature classification T4 at Ta = 50°C and T3C at Ta = 70°C.

An external 12V DC power input option is available for the T6 IS GPS Tags. When connected, battery power is not used. When external power is disconnected, the Tag automatically reverts back to battery power. Externally powered T6 IS Tags require an additional barrier and DC-DC converter to supply power.

Sensor and Telemetry Capabilities

The T6 Tags have built-in motion sensors that save battery life by controlling the transmission trigger and intervals. When the tag is in motion, location monitoring and transmissions become more frequent while a stationary tag will transmit data less often. In addition, AeroScout tags can be customized to include sensors for data retrieval from host devices to monitor information such as mileage, pressure, or fuel levels. All of this information is sent over Wi-Fi networks to the AeroScout System.

AeroScout MobileView Software

AeroScout MobileView software is a key component of the GPS solution and it unifies asset visibility data such as GPS location, with a variety of other sources, including AeroScout's Wi-Fi RFID as well as Passive RFID Tags and sensors. MobileView provides users with a single interface for viewing, searching, reporting, alerting, and acting upon all of their asset visibility data.

MobileView supports the following functionality:

- Track the location, condition, and status of tens of thousands of mobile assets
- Easily access visibility data from Web browsers and handheld devices
- Configure and send automated alerts based on context
- Export reports on asset inventory, utilization and events
- Manage users, assets, and sites
- Integrate with any third-party application
- Create customized industry applications

T6 GPS Tag Specifications

Wi-Fi Radio
- Compliant with 802.11b/g networks (2.4 GHz)
- Transmission power: +19 dBm (~81 mW)

GPS Receiver
- SIRF Single chip receiver GSC3E/LP
- Tracking sensitivity: -158 dbm

Physical and Mechanical
- Dimensions: 100 mm x 80 mm x 55 mm (3.9 in. x 3.1 in. x 2.2 in.)

Functionality
- GPS coordinates are periodically sent over the Wi-Fi channel in pre-programmed intervals
- Transmission interval is configurable
- Built-in motion sensor enables more frequent transmissions when in motion and less frequent when not in motion

Environmental Specifications
- IP Rating: IP-67
- Temperature: -30°C to +75°C (-22°F to +167°F)

Electrical
- 2 x D lithium 3.6 V battery pack (replaceable)
- Battery life: up to 4 years (dependent on usage scenario and other factors)
- Optional external 12V DC input (3-pin male connector)

Certifications
Radio:

- FCC Part 15, sub-part C class B, sub-part Bo EN 300-328, EN 301-489

Safety:

- CE, cTUVus (EN60950)