

ITECH AIM Active RFID Asset Tag

"Connected World | Smarter Business"

Active RFID & RTLS Asset Tag with Various Mounting, Sensors and Antenna Options



Overview

ITECH AIM Asset Tag is an affordable multi-functional RFID tag that can be used in RFID and RTLS applications.

Primarily, ITECH AIM Asset Tag is an active RFID tag that sends unique ID which are captured by ITECH AIM Active Reader or Gateway Devices. Using this unique ID and our user friendly software, enterprises can achieve asset traceability in indoor and outdoor environments. These assets can be anything that is valued by the enterprise: i.e. Materials, Work in Process items, Equipment, Fridges, Personnel, Forklifts...

In addition to the active RFID features, ITECH AIM Asset Tag consists of nearly 100% accurate zone detection when used with ITECH AIM RTLS software module and Zone Beacons. With this feature, there is no longer using RF Signal Based techniques with inconsistent location readings. Check our RTLS solution brief for detailed information.

ITECH AIM Asset Tag incorporates an accelerometer and a temperature and humidity sensor that can be used in many different applications. i.e. Accelerometer can be used for theft prevention of valuable assets in buildings or workspaces. TH sensor can be used for environmental monitoring of critical areas like vaccine refrigerators, art galleries, museums and wine cellars etc.

ITECH AIM Software contains many of the possible Asset Tag applications as modules to ease integration and lower the cost of ownership for our clients.

Applications

- Asset and Personnel Tracking
- Indoor Real Time Location Awareness
- Temperature and Humidity Sensing
- Movement Detection

Key Features

Worldwide Non-Interfering Frequency

ITECH AIM Asset Tag works in the worldwide non-licensed 2.4GHz ISM band. Jamming this tag with Wi-Fi and Bluetooth signals is nearly impossible with its built-in collision avoidance mechanisms.

Long Battery Life

ITECH AIM Asset Tag runs from 1 year to 3 years with lithium CR2032 coin cells, which can be found in stores or purchased from us. Note that the Tag has a new CR2032 inside at the initial purchase.

Various Options for Flexible Applications

ITECH AIM Asset Tag has a modular structure to improve the affordability and flexibility. Options of the Tag are listed below. Options can be combined among them. See order code to build a correct version for your needs or contact our sales department.

Option 1: 100% Accurate Zone Detection

ITECH AIM Asset Tag is capable of providing 100% accurate zone detection when coupled with ITECH AIM Zone Beacons. Unlimited number of zones can be defined. Zone entrances, exits and spent-time in zones can be tracked from our software platform.

Option 2: Motion Sensing

ITECH AIM Asset Tag is capable of detecting movement, inertness and freefall that are useful for theft prevention, lone worker safety and shock logging.

Option 3: Temperature and Humidity Sensing

ITECH AIM Asset Tag can utilize a sensitive TH sensor for environmental monitoring. ITECH AIM software contains necessary analysis, reporting and alarm features. TH sensor operates between 0-80% relative humidity with typical 3% humidity and 0.5% temperature measurement accuracy. Contact sales for detailed information on sensing specs.

ITECH AIM ASSET TAG OPTIONS, MORE SPECS AND ORDER INFORMATION

Option 4: Software Programmable Button

ITECH AIM Asset Tag can have a software programmable call button on the front surface of the Tag. This button can be used for different purposes like emergency call button, asset maintenance reporting, panic button etc. Up to 3 buttons can be added to the Tag surface.

Option 5: Mounting Options

ITECH AIM Asset Tag has three different mounting options:

- Two screw holes for mounting via screws
- Strong double-sided adhesive tape on the backside
- Belt-clip for personnel

Option 6: Antenna Options

ITECH AIM Asset Tag can be used with standard onboard antenna or some external antennas. External antennas are needed when transmission distance requirements are longer and assets to be tracked are bigger like trucks, forklifts etc. We have three antenna options:

- Indoor Antennas adjacent to the Tag
- Indoor/outdoor Antenna with Magnetic Base Mount with 5 meters cable
- Indoor/Outdoor Antenna with Permanent Mount with 5 meters cable

Contact sales for detailed information on antennas.

Physical:

Size: 50 x 35 x 15 mm, 25 gr

Battery:

Battery Life up to 3 years on replaceable CR2032 Coin Cell @30 sec. blink rate

Operational:

No Wi-Fi and Bluetooth Interference
Worldwide Unlicensed 2.4 GHz ISM Band
Low Transmit Power with Respect to Wi-Fi and Passive Solutions
No burden on IT infrastructure (No IP address needed)
Plug & Play with dynamic channel allocation
EN 300-328, EN 300-330
CE

Environmental:

Operating and Storage Temperature: -10°C to 75°C
Humidity: 0 to 95%, condensing
IP 54 (can differentiate between options, contact us for further detail)

Order Information

ITECH AIM Asset Tag order code build up is as follows.

AIM-Tag-X-ABCD-Y

X = Mounting Option:

- S for Screw Hole
- A for Adhesive Tape
- B for Belt-Clip

A = 1 if Zone Detection Feature, 0 otherwise

B = 1 if Motion Detection Feature, 0 otherwise

C = 1 if TH Sensing Feature, 0 otherwise

D = No. of buttons (above 1 button requires MOQ of 100)

Y = Antenna Options:

- I for regular 2 dBi Indoor Dipole Antenna
- H for high gain 8 dBi Indoor Dipole Antenna
- M for Magnetic Base Mount Antenna
- P for Permanent Mount Antenna

ABOUT US:

ITECH is a tech start-up founded in 2011 in Turkey and selected as one of the top 10 tech start-ups of Turkey in 2013 by Turkish Ministry of Science, Industry and Technology.

ITECH's innovative business intelligence platform ITECH AIM provides affordable operational efficiency improvements for all sizes of companies by enabling physical asset traceability from planning to organizational integration with pay as you go approach.



CONNECTED WORLD | SMARTER BUSINESS

Resitpasa Mah. Istinye Bay. Cd. ITU TGA Start-Up
Acceleration Center No: 413 Sariyer/Istanbul - TURKEY

Tel: +90 212 275 54 66
E-mail: info@itech.com.tr
Web: www.itech.com.tr