



Real Time Asset Tracking Solution using IoT

OmniWOT's advanced Asset Tracking enables businesses to achieve precise, long-range & low-power monitoring of critical assets across industries. This solution enhances Operational Efficiency, Security & Real-Time visibility while integrating seamlessly with existing IoT infrastructures.

Key Features

- Dual Tracking Technology: Combines the power of both UWB for high-precision tracking (<1 Meter accuracy) and LoRaWAN for long-range, low-power asset monitoring.
- Help solving issues for many industries viz...



Manufacturing & Warehousing



Logistics & Supply Chain



Healthcare & Medical Equipment Tracking



Retail & Smart Stores



Airports & Smart Transportation



Anonymous Parking



Automate Asset Discovery



Asset Ageing

- Scalable & Versatile: Supports thousands of assets across indoor and outdoor environments.
- Real-Time Location Updates: Instant alerts for asset movement, unauthorized access, and geofencing violations.
- Battery-Efficient Design: LoRaWAN tags offer multi-year battery life, reducing maintenance efforts.
- Seamless Cloud Integration: Compatible with major IoT platforms for analytics, reporting, and automation.

Why Choose Our Solution?

- Highly Scalable – Supports large asset networks with UWB for precision & LoRaWAN for range.
- Low Power Consumption – Long battery life for minimal maintenance.
- Easy Deployment – Wireless setup without complex infrastructure.

- Flexible Cloud & API Integration – Works with multiple IoT platforms.
- Robust Security & Compliance – Ensures data protection and regulatory adherence.

Transform your asset tracking with unparalleled visibility, security, and efficiency.



Asset Tracking Sensors

- 1) RFID, UWB & Bluetooth Low Energy (BLE) Tags
- 2) LoRaWAN & GPS-Based Asset Tracking Sensors
- 3) Wearable Smart Watch
- 4) Safety Helmet & Vest
- 5) Panic Buttons for Emergency



Industry Applications & Benefits

1. Manufacturing & Warehousing

Efficient tracking of raw materials, tools, and equipment across large industrial spaces.

- Real-time inventory monitoring to prevent misplaced assets.
- Automated stock level alerts for optimized supply chain management.
- Geofencing for restricted areas to enhance security.
- Predictive maintenance insights for factory equipment.
- Reduced downtime by quickly locating critical tools and machinery.

2. Logistics & Supply Chain

Seamless monitoring of cargo, pallets, and containers across global supply chains.

- End-to-end shipment visibility from warehouses to delivery.
- Cold chain monitoring for temperature-sensitive goods.
- Tamper detection alerts for theft prevention.
- Route optimization using real-time asset location data.
- Automated check-ins and check-outs at distribution hubs.

3. Healthcare & Medical Equipment Tracking

Ensures medical assets are available and secured at all times.

- High-Value Drugs Monitoring in hospitals and laboratories.
- Real-time tracking of medical devices (wheelchairs, ventilators, infusion pumps).
- Staff and patient movement monitoring for emergency response.
- Medication and blood sample tracking for compliance.
- Theft prevention alerts for high-value assets.

4. Retail & Smart Stores

Enhances inventory visibility and theft prevention in retail environments.

- Automated stock monitoring to prevent out-of-stock situations.
- Asset tracking for high-value items.
- Loss prevention & security alerts in real-time.
- Optimized warehouse-to-shelf replenishment process.

5. Airports & Smart Transportation

Tracks baggage, ground support equipment, and fleet assets.

- Automated baggage tracking to reduce loss and misplacement.
- Airport vehicle monitoring (fuel trucks, carts, maintenance vehicles).
- Real-time train, bus, and fleet tracking for public transportation.
- Predictive maintenance scheduling for transport assets.

6. Anonymous Parking

Optimizes smart parking management with real-time vehicle tracking.

- Valet Parking Automation: Vehicles are tagged with UWB or LoRaWAN sensors at drop-off, allowing attendants to quickly locate and retrieve them when the customer returns.
- Real-Time Vehicle Location: Valet Drivers can view the car via mobile app, reducing wait times.
- Unauthorized Parking Detection: Alerts for unauthorized vehicle movements or extended parking durations.

7. Automate Asset Discovery

Streamlines the identification and tracking of assets across large facilities.

- Automated Asset Registration: LoRaWAN tags allow seamless discovery and onboarding of new assets into inventory.
- Real-Time Asset Visibility: Continuously monitors the location and status of assets.
- Quick Loss Prevention: Alerts when an asset is moved unexpectedly or misplaced.
- Enhanced Audit Processes: Automated tracking ensures compliance with asset records.

8. Asset Ageing Management

Monitors the lifecycle of assets to optimize usage and replacement schedules.

- Automated Usage Tracking: Records asset movement and operational time.
- Predictive Maintenance Insights: Identifies aging equipment that requires servicing or replacement.
- Optimized Asset Utilization: Ensures older assets are prioritized for use before expiration.
- End-of-Life Alerts: Notifies when assets reach their lifespan limits.
- Data-Driven Decision Making: Provides insights for capital expenditure planning.

Key Benefits of Wireless IoT in Asset Tracking

1. Real-Time Location Tracking & Visibility

IoT-powered **GPS** and **RFID asset tracking sensors** provide real-time location data, minimizing **losses and theft** while improving **inventory management**.

2. Improved Asset Utilization & Productivity

By monitoring **equipment usage and availability**, businesses can **optimize asset deployment**, reducing downtime and maximizing efficiency.

3. Theft Prevention & Geofencing Alerts

Geofencing technology sends **instant alerts** when assets move **beyond predefined zones**, preventing unauthorized movement and ensuring security.

4. Predictive Maintenance & Reduced Downtime

Vibration and temperature sensors detect anomalies in critical machinery, enabling **proactive maintenance** and preventing costly failures.

5. Cost Savings Through Loss Prevention

By reducing misplaced or stolen assets, **wireless IoT tracking solutions** help organizations **cut replacement costs** and improve operational efficiency.

6. Centralized Monitoring & Remote Management

A **cloud-based dashboard** consolidates all asset data, allowing facility managers to **track, analyze, and optimize asset performance remotely**.

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Innovate, Integrate & Empower

omniwot.com | +91 75502 28044 | info@omniwot.com

OmniWOT Technologies Private Limited, 103, Tower 5,
L&T Raintree Boulevard Bellary Road,
Byatarayanapura, Bengaluru, India-560092.

