FOR IMMEDIATE RELEASE

Lansitec Launches Groundbreaking LoRaWAN®-based Ultra-Wideband Tracking Solutions for Precision Asset Management

Nanjing, Jiangsu - Jan. 3rd, 2025 - Lansitec Technology, a leading IoT people and asset tracking solution provider, is proud to announce its first-ever LoRaWAN-based Ultra-Wideband (UWB) tracking solution: the Lansitec UWB Anchor and UWB Trackers. These innovative devices represent a significant leap forward in indoor positioning technology, offering unprecedented precision and reliability for complex tracking environments, as well as ease of installation.

Solution Technology

Ultra-wideband (UWB) is a revolutionary positioning technology that enables centimeter-level accuracy by using extremely short-duration radio pulses across a wide spectrum of frequencies. Unlike traditional Ethernet-based UWB positioning solution, we provide:

- Battery-powered anchor with up to 18 years battery life

- Cableless installation

- Exceptional positioning precision (10 cm accuracy)

- Robust performance in complex indoor and outdoor environments

- Low power consumption

- Minimal electromagnetic interference

Launching the LoRaWAN UWB Anchor

The Lansitec LoRaWAN UWB Anchor is a sophisticated positioning device that serves as the foundation of precise indoor tracking. Designed to work seamlessly with UWB trackers, it provides comprehensive asset and personnel management capabilities. The battery-powered anchor enables completely cableless installation compared with ethernet-based solutions. The anchor can be pasted or nailed on a wall in one minute. Please see the installation video on the link below.

https://youtu.be/TIsH7OOcrw4

Key Features:

- **Cableless installation**

- **Exceptional Precision:** Achieves 10 cm indoor tracking accuracy

- **Extensive Coverage:** Supports up to 512 simultaneous trackers

- **Robust Design:** IP66 ingress protection

- **Extreme Durability:** Operates from -40°C to +85°C

- **Long-Lasting Performance:** Battery life of up to 18 years depending on configuration

Technical Specifications:

- **Connectivity:** LoRaWAN 1.0.2B with multiple global bands
- **UWB Frequency:** 3.1 to 10.6 GHz (region-dependent)
- **Dimensions:** 160x160x55 mm
- **Weight:** 530 g
- **Power:** Dual Li-SoCl2 battery (19000mAh *2)
- **Encryption:** AES128

Introducing the UWB Tracker

Complementing the UWB Anchor, the Lansitec UWB Tracker offers versatile tracking solutions with multiple form factors to suit diverse application needs.

Key Features:

- **Precise Positioning:** 10 cm indoor tracking accuracy
- **Flexible Design:** Available in Badge, Container, and Asset Management variants
- **Comprehensive Tracking:** Supports geo-fencing and asset management
- **Long Battery Life:** Up to 16 months standby time
- **Robust Construction:** IP66/IP68 protection (model-dependent)

Technical Specifications:

- **Connectivity:** LoRaWAN 1.0.2B with multiple global bands
- **UWB Frequency:** 3.1 to 10.6 GHz (region-dependent)
- **Dimensions:** Varies by model (97x62x7 mm to 198x28x33 mm)
- **Weight:** 28 g to 135 g
- **Power:** Li-ion and Li/SOCl2 battery options
- **Encryption:** AES128

Customer Benefits

Lansitec's UWB tracking ecosystem offers transformative solutions across multiple industries, addressing critical challenges through unprecedented positioning accuracy and reliability:

- Manufacturing
    - Real-Time Asset Tracking: Track high-value equipment and tools with 10 cm precision, reducing loss and misplacement.

- Workflow Optimization: Monitor equipment movement and worker locations to streamline production processes.

- Safety Compliance: Create instant geo-fence alerts for restricted areas, preventing unauthorized machine access.

- Preventive Maintenance: Track machine usage duration and location, enabling predictive maintenance scheduling.

- Logistics

    - Warehouse Management: Precisely locate inventory and equipment in real-time, reducing search times by up to 80%.

    - Cargo Tracking: Monitor high-value shipments with centimeter-level accuracy, enhancing security and accountability.

    - Worker Safety: Track personnel in complex warehouse environments, ensuring quick emergency response.

    - Inventory Efficiency: Automate inventory counts and reduce manual tracking labor.

- Healthcare

    - Medical Equipment Tracking: Instantly locate critical medical devices like portable X-ray machines, ultrasound equipment, and infusion pumps.

    - Patient Monitoring: Track patient movements within facilities, improving care and preventing unauthorized departures.

    - Infection Control: Monitor staff and equipment movement to support contact tracing and hygiene protocols.

    - Asset Utilization: Analyze equipment usage patterns to optimize resource allocation.

- Construction

    - Equipment Management: Track expensive machinery and tools across large, complex construction sites.

    - Worker Safety: Create safety zones around dangerous equipment or hazardous areas.

    - Progress Tracking: Monitor material and equipment movement to track project progress and efficiency.

    - Theft Prevention: Receive immediate alerts for unauthorized equipment movement.

- Public Spaces

    - Visitor Management: Track visitor flow in museums, airports, and large public venues.

- Security Enhancement: Create dynamic geo-fences and receive instant alerts for suspicious movements.

- Crowd Management: Analyze people's movement patterns to optimize space utilization.

- Emergency Response: Quickly locate and guide personnel during critical situations.

- Additional Cross-Industry Benefits

  - Cost Reduction: Minimize equipment loss and improve asset utilization

  - Operational Efficiency: Reduce time spent manually tracking assets and personnel

  - Enhanced Security: Provide real-time location monitoring and instant alerting

  - Compliance Support: Create automatic logs and reports for regulatory requirements

  - Energy Efficiency: Low-power design ensures long-term, sustainable tracking solutions

By combining ultra-precise positioning with robust LoRaWAN connectivity, Lansitec's UWB tracking ecosystem provides a versatile, future-proof solution for complex tracking challenges across diverse environments.

LoRaWAN® is a mark used under license from the LoRa Alliance®.

About Lansitec Technology

Founded in 2015, Lansitec Technology is dedicated to providing innovative IoT solutions for people and asset tracking. Lansitec specializes in integrating cutting-edge technologies like LoRaWAN, NB-IoT, Bluetooth, and now Ultra-Wideband to offer seamless indoor and outdoor positioning services.

For more information, visit Lansitec Technology or contact us at contact@lansitec.com.

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