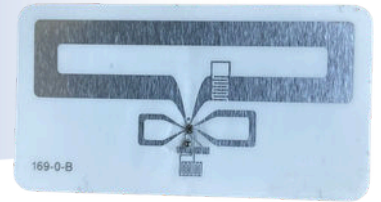


Ambient IoT Solutions

Battery-Free Connected Intelligence for Modern Supply Chains



Moving Beyond Traditional Tracking

Tadbik RFID & IoT, in collaboration with Wiliot, delivers Ambient IoT solutions that enable continuous visibility, sensing and operational intelligence across modern supply chains.

Unlike traditional RFID and tracking technologies that rely on manual scanning or fixed read points, Ambient IoT creates a continuous connected layer between physical assets, operational environments and real-time data.

Battery-free connected products continuously communicate information such as location, identity and environmental conditions — helping organizations improve visibility, reduce operational blind spots and make faster, data-driven decisions.

Combining Wiliot's Ambient IoT technology with Tadbik's advanced conversion engineering and industrial manufacturing capabilities, the solution is designed for scalable deployment across logistics, reusable packaging systems, cold chain operations and industrial environments.

From Identification to Continuous Intelligence

Ambient IoT transforms physical products and operational assets into connected digital entities capable of delivering real-time operational awareness.



**Continuous
asset
visibility**



**Environmental
monitoring**



**Temperature
sensing**



**Light
exposure
detection**



**Location
awareness**



**Operational
status
tracking**

This enables organizations to move beyond simple identification toward continuous sensing and intelligent supply chain operations.

Engineered for Real-World Conditions

Tadbik's Ambient IoT tags are designed specifically for demanding operational environments, including:

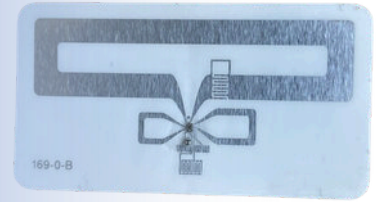
- Exposure to sunlight, humidity and heat
- Repetitive transportation cycles
- Plastic and wooden assets
- Industrial and logistics operations

A key differentiator is Tadbik's ability to integrate antenna, chip and energy storage components into a single application-ready smart label structure — enabling scalable production of durable battery-free sensing devices.

To date, Tadbik has produced and delivered more than 20 million Ambient IoT tags as part of its collaboration with Wiliot.

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Ambient IoT Tag Portfolio

Durable Reusable Asset Tags

Designed for pallets, reusable plastic containers, roll cages and operational logistics assets.

Engineered for:

- Long operational lifecycles
- Repetitive handling
- Outdoor and industrial environments
- Circular supply chain operations

Plastic-Based Ambient IoT Tags

Advanced plastic-based smart tags designed for enhanced durability and long-term deployment.

Ideal for:

- Reusable packaging systems
- Harsh logistics environments
- Industrial operational assets
- High-volume scalable deployments

Sensor-Enabled Smart Tags

Battery-free connected tags integrating sensing capabilities for operational monitoring.

Capabilities include:

- Temperature monitoring
- Humidity sensing
- Light exposure detection
- Environmental condition awareness

Smart Supply Chain Tags

Connected tags designed for inventory visibility, asset tracking and operational intelligence across warehouses and logistics networks.

Applications include:

- Inventory automation
- Reusable asset tracking
- Cold chain monitoring
- Shipment visibility
- Operational analytics

Why Ambient IoT?



Battery-Free Operation

No batteries.
No maintenance.
Continuous connected visibility.



Real-Time Operational Awareness

Continuous sensing and monitoring across supply chain environments.



Scalable Deployment

Designed for industrial-scale manufacturing and large operational networks.



Sustainable by Design

Supports reusable systems and circular supply chain models.



Future-Ready Supply Chains

Enabling the transition from tracking to intelligent connected operations.