

The **ZiM** Product Guide from Dot Ai



Know where. Smarter.

IoT + AI Solutions for Intelligent
Supply Chain + Asset Management



About Dot Ai

INTELLIGENCE | ASSURANCE | SAFETY

OUR MISSION

At Dot Ai we are dedicated to transforming your supply chain management from an operational challenge to your competitive advantage. Leverage real-time, edge-accurate data to minimize disruption, enhance agility + create value for your customers.

THE LANDSCAPE

RFID is a relic of the twentieth century, so why continue to rely on it for critical asset data? Innovation has stalled in this industry for decades, but with AI + IoT becoming increasingly vital to stay competitive, Dot Ai has developed a revolutionary solution suite to transform logistics operations with minimal cost + simple integration.

OUR TECHNOLOGY

Our next generation solution suite, complete with patent-pending IoT hardware + AI-driven SaaS software, enables real-time location data, unmatched precision at the edge + AI-enhanced analytics that will transform your logistics operations with continuous process optimization.



WHY CHOOSE US

Our competitors allow you to see your assets only as often as you scan them. Their systems rely on manual processes + leave large gaps in visibility. Our technology is scanning constantly, offering unprecedented oversight + detailed context without relying on costly infrastructure or manual data collection.



Dot Ai Advantage

Key Competitive Differences

- | | |
|---|--|
| <input checked="" type="checkbox"/> Automated data collection | <input checked="" type="checkbox"/> Rely on manual processes |
| <input checked="" type="checkbox"/> Unmatched visibility and context | <input checked="" type="checkbox"/> Leave large gaps in visibility |
| <input checked="" type="checkbox"/> Real-time location data | <input checked="" type="checkbox"/> Last-seen location data |
| <input checked="" type="checkbox"/> No proprietary readers or gateways | <input checked="" type="checkbox"/> Need hand scanners or bulky gateways |
| <input checked="" type="checkbox"/> Integrates with existing systems | <input checked="" type="checkbox"/> Complicated adoption + integrations |
| <input checked="" type="checkbox"/> Solutions are flexible + customizable | <input checked="" type="checkbox"/> Most are not customizable |
| <input checked="" type="checkbox"/> Leverage existing Infrastructure | <input checked="" type="checkbox"/> Must use as an isolated system |

Competitive Implementation

Dot Ai Advantage:
1-3 months with simple
setup + minimal cost.

Competitors:
1-3 years with significant
infrastructure costs.



Maturity Model for Asset Tracking + Process Automation

The following Maturity Model illustrates the evolution of operational capabilities when adopting our integrated solution of Wiliot Passive Tags and the cloud-based SaaS platform. It highlights competitive advantages in deployment speed and cost savings over traditional solutions.



Immature: Manual processes dominate; incomplete inventory visibility limits efficiency.

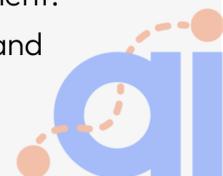
Basic: Real-time visibility of limited assets with basic event rules for operations.

Sustainable: Real-time visibility of all assets, automated processes, centralized data and AI acceleration.

Mature Visibility: Optimized inventory flows, AI-driven decision-making, and seamless ERP/WMS communication.

Mature Oversight: Automated inventory forecasting, gap escalation, and predictive management.

Continuous Automation: Fully automated ERP/WMS processes, AI-enhanced task scheduling, and proactive process improvement.



Dot Ai Solution Set

ZiM IoT



Zero Infrastructure Mesh (patent-pending) creates a seamless IoT mesh network in your environment. ZiM automatically scans for assets, marked by our tags or leveraging your existing tracking infrastructure.

Passive Tags

Dot Ai **Passive Tags** utilize battery-free paper labels + industrial tags that can be placed on items, pallets, racks, tools, or vehicles. Dot Ai tags work on metal, unlike most RF tags, and constantly feed real-time location data to ZiM, no manual scanning required.



SaaS Platform



The Dot Ai **SaaS Platform** collects your real-time asset data from ZiM. The customizable rules engine + Artificial Intelligence to provide detailed analytics and automate critical notifications for you or your customers.

Feature Highlights



Transform Your Operations with These Cutting-Edge Features

Real-Time Asset Tracking

Customize visibility to meet your business needs:

- Mobility tracking in transit
- Passive + active tag integration
- Never lose sight of your inventory or equipment with real-time visibility + customizable geofencing.
- Easily transition with the same devices indoors + outdoors

AI-Powered Predictive Analytics

- Anticipate + solve potential disruptions before they impact your bottom line
- Heatmap process + asset locations
- Powerful rules improve operational agility + optimize your factory 5.0

Customizable Dashboards

Get actionable insights from an AI-engine uniquely tailored to your workflows:

- Are workflows optimized for meeting ship times?
- What dependencies are not complete potentially disrupting order flow?
- How often does a pick/put/pull require additional interaction?
- How often does improper handling of materials due to environment variables disrupt your shipment? (Or even create a loss event?)



Customize your deployment easily

- Fast + simple I/O integration for context delivery using standard M12 I/O integration to ZIM.
- Humidity Sensors
- Pressure Sensors
- Inductive Proximity Sensors
- Active Transducers
- Level Sensors
- Infrared Sensors
- Flow Sensors



Meet ZIM.



Zero Infrastructure Mesh

The Zero Infrastructure Mesh or **ZIM** IoT hardware from Dot Ai provides unparalleled, real-time visibility of all assets in your environment.

This versatile device is the first-of-its-kind + eliminates the need for handheld scanners or other costly infrastructure.

Why Are Industry Leaders Choosing ZIM?

Enhanced Edge Intelligence: Delivers advanced asset tracking capabilities by processing contextual data directly at the edge.

Seamless Communication: Utilizes LoRaWAN intra-mesh communication and 2.4GHz asset tag reading for reliable, real-time data transmission.

Versatile I/O Integration: Offers fast and simple integration with standard M12 connectors, supporting a wide range of industrial sensors for richer contextual data.

Scalable Infrastructure: Operates within a Zero Infrastructure Mesh (ZIM) framework, reducing dependency on traditional infrastructure while enhancing network scalability.

Improved Operational Efficiency: Enables smarter decision-making with precise sensor data, such as humidity, pressure, proximity, and flow, for better process optimization.

Cost-Effective Implementation: Combines high functionality with reduced infrastructure and labor needs, offering a compelling return on investment.



Key Features

Satellite, GPS + Cellular Capability
Functions Offline

Impact + Weatherproof

Audio + Visual Alerts

Supports Custom Notifications

Passive Tags + Data Flow



Passive Tag Features

Powered by ZiM

Harvests energy from ZiM's ambient radio frequencies.

Durable

Resistant to harsh conditions, ensuring long-term use.

Connectivity

Bluetooth Low Energy (BLE) communication with ZIM.

Form Factor

Ultra-thin + lightweight design is ideal for diverse environments + asset types

Cost Effective

Low-cost solution that enables tracking for high-volume, low-value assets.

Data Capture

Unique ID, temperature, location, motion + other environmental factors

System Architecture + Data Flow

The integration of **Passive Tags**, **ZiM**, and our **cloud-based SaaS platform** creates a streamlined flow of actionable data.



Passive Tags: Sensors on assets provide continuous data (location, temperature, or motion).



ZiM: Charges and collects tag data and forwards it to a local gateway.



Local Gateway: Processes data and securely transmits it to the Dot Ai cloud-based SaaS platform

Cloud-Based SaaS Platform: Aggregates, analyzes, and contextualizes data for actionable insights. Integrates seamlessly with ERP/WMS systems.



Dot Ai Cloud Platform



Our advanced cloud platform integrates unique Dot Ai artificial intelligence capabilities for comprehensive operational insights.

Vision + Camera Intelligence

Utilize AI-powered image + video processing to enhance context collection, asset tracking, and situational awareness.

Predictive Analytics

Employ AI to forecast asset utilization, predict inventory needs + provide actionable metrics for informed decision-making.

Unique Rules Engine

AI-assisted rules automate notifications for better interaction + accelerate transition into Factory 5.0 mission success.

Cloud Platform Features

Real-Time Visibility	Provides live location tracking, enabling efficient asset management and reduction of downtime.
Automated Workflows	Streamlines manual tasks, improving labor efficiency and reducing errors.
Advanced Analytics	Leverages AI for predictive insights, anomaly detection, and process optimization.
Heatmaps + Visualization	Optimizes space and operational flows by identifying bottlenecks or inefficiencies.
ERP + WMS Integration	Seamlessly extends capabilities of legacy systems, reducing the need for disruptive upgrades.
Event-Based Alerts	Triggers notifications for predefined conditions (e.g., misplacement, temperature threshold breaches).
Scalability	Supports operations of any size, with minimal infrastructure requirements.
Sustainability	Reduces dependency on batteries and extensive hardware, aligning with green initiatives.

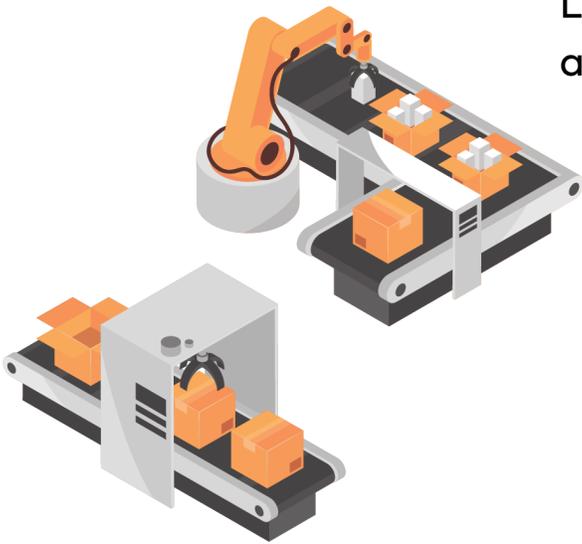


Built for Industry Leaders

Engineered for Logistics + Manufacturing

The platform supports unique sequence + recipe tracking to ensuring precise inventory management + seamless process verification, making it ideal for industries requiring high accuracy + scalability.

Leverage comprehensive data + AI analytics to enhance organizational agility.



Stop disruptions before they occur with predictive analytics

Create value for your end-user + improve customer experience with real-time updates

Unlock Multiple Uses with One System

- Pick-Pack-Put
- Loss Prevention
- Geofencing + Automated Alerts
- Warehouse + Yard
- Fleet Management
- Inventory + Equipment Tracking
- Operations + Process Optimization
- Security + Access Control
- Personnel + Visitor Tracking



Book Your Free ZiM Demo Today

Visit www.daic.ai/demo

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