



RFID Module

The Agilence RFID Module revolutionizes retail analytics by integrating item-level tracking through Radio Frequency Identification (RFID) technology.

This module empowers users to track individual items with precision, offering valuable insights into inventory movement, loss prevention, and shrink management. It combines cutting-edge RFID technology with Agilence's powerful analytics platform, enabling users to optimize sales opportunities, monitor inventory zones, and reduce losses effectively.

What Can You Analyze?

Comprehensive Lost Item and Shrink Analysis

Gain deep insights into inventory discrepancies by analyzing RFID-tagged items flagged as lost during cycle counts. Compare expected on-hand inventory with RFID data to identify patterns that contribute to shrink. These insights allow retailers to address operational inefficiencies and prevent losses proactively.

Item-Level Movement Tracking

Track the movement of individual items across defined zones, such as fitting rooms, backrooms, and sales floors. Understand how products flow through the store and correlate this data to sales and operational outcomes. For example, identify if high-return items spend more time in certain zones, providing actionable insights to improve customer experience and reduce losses.



Real-Time Inventory Management

Use sensors and handheld wands to monitor inventory in real-time. RFID technology enables efficient cycle counts and detects missing or misplaced items without manual scanning. Quickly identify potential theft or misplacement and respond to anomalies before they escalate into larger issues.

Fraud and Theft Prevention

Pinpoint fraud and theft opportunities by correlating RFID data with POS activity. Detect when items leave the store without proper sales records or when inventory exits through unauthorized routes, such as back doors. RFID empowers retailers to track stolen goods and identify areas with frequent loss events.



What's Included?

Inventory & Shrink Analysis

- ✓ Analysis of RFID-tagged items lost versus expected on-hand quantities.
- ✓ Identification of high-shrink zones within stores for targeted action.
- ✓ Monitoring shrink trends by SKU to uncover patterns and vulnerabilities.

Item Movement Tracking

- ✓ Tracking product transitions between zones such as backroom, fitting room, and sales floor.
- ✓ Evaluation of cycle count accuracy by zone for inventory consistency.
- ✓ Analysis of average dwell time by zone to optimize product placement and movement.

Theft Detection & Fraud Prevention

- ✓ Identification of items exiting the store without a corresponding POS record.
- ✓ Detection of anomalies in backdoor movements to flag potential issues.
- ✓ Mapping theft hotspots for proactive fraud prevention strategies.

Data Requirements

The RFID Module is an add-on to the Agilence Analytics Platform. It requires RFID-tagged inventory data, POS transaction data, item (product) data, store location data, and HR (employee) data. The module can integrate data from handheld RFID wands, store zone sensors, and front-door RFID detectors.

Cycle Counting

- ✓ Assessment of area-wide RFID scans to ensure accuracy in inventory tracking.
- ✓ Monitoring RFID cycle count completion rates to maintain operational standards.
- ✓ Providing inventory adjustment recommendations based on scan results for improved precision.

Precise Item-level Tracking

The **RFID Module** empowers retailers to proactively address inefficiencies and improve profitability with insights into inventory movement, shrink patterns, and theft detection.



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