



## Retail - Retail Supply Chain

# Real-time Inventory Management and Control from Warehouse to Store

### Solution Benefits:

- Improve asset management by wirelessly monitoring and tracking movement of products and goods from warehouse to store
- Reroute inventory on-the-fly based on individual stores' needs
- Reduces the need to carry excessive buffer stock
- Standards-based: ISO/IEC 18000-6:2010 and EPC Global C1G2
- Monitor product condition in-transit to minimize shipment of damage or stolen inventory
- Easy to deploy and integrate with existing networks and access control

The Intellex Solution for the Retail Supply Chain delivers the ability to automate and simplify inventory tracking of retail goods from the warehouse and distribution center to retail stores and outlets. Utilizing Machine-to-Machine communications, retailers can reroute inventory on-the-fly to minimize out-of-stocks and capitalize on local buying preferences. With Intellex XC3 Technology™, you can also easily and cost-effectively monitor the status of individual products to track proper storage and handling.

### The Need for On-Demand Visibility

Brick-and-mortar retailers are seeking new ways to optimize supply chain operations. Providing the ability to reduce the amount of buffer stock in inventory to cover potential shortages of goods directly benefits the bottom line. Enabling retailers to reroute inventory in-transit to stores who are low on or out-of-stock on fast moving items delivers the opportunity to maximize revenues. Tracking and monitoring the condition of inventory and whether it is being properly stored and handled can reduce in-transit damage, minimizing the need to replenish stock and return damaged items as well as reduce theft.

### The Challenge

Increasing competition from online marketers is forcing traditional retailers to rethink inventory management and distribution to gain competitive advantage and maximize the use of available stock. Unfortunately, once products are shipped from a warehouse, it is difficult to track individual items and reroute them in real-time based on changes in demand. As a result, inventory cannot be rerouted from stores with low demand to stores with high demand based on local buying preferences. This forces retailers to increase buffer inventory which is a significant capital expense.

The inability to monitor the condition of goods in-transit means that items could be dropped or damaged and still remain in the distribution channel, reducing saleable items and slowing the replenishment of out-of-stock items.

## The Solution

The Intellex solution for retail inventory management and control helps retailers improve distribution operations from the warehouse to the store.

Intellex Extended Capability RFID™ readers and tags provide retailers with the ability to accurately monitor inventory of big box and other items throughout the supply chain through to the retail store. Rugged and cost-effective tags are affixed to individual products and can be wireless tracked while in-transit. Using Machine-to-Machine communications, distributors can adjust deliveries in real-time, alerting drivers to change routes and deliveries to adjust for changes in demand. This provides the ability to reroute inventory on-the-fly from stores with low sales of a particular item to stores with high-demand, minimizing costly out-of-stocks. By improving inventory usage and turns, retailers can also minimize buffer stocks and reduce capital expenditures or the need to overstock items with short lifecycles.

Intellex tags can also be used to monitor the condition of inventory once it leaves the warehouse. On-tag sensors not only can track inventory location but also record the condition and monitor proper storage and handling and, as needed, identify locations in distribution where damage or theft occurs. An optional light sensor can be used to determine when a box was opened, which can indicate repackaging.

Intellex solutions are designed for the most demanding environments. Tags can be automatically and reliably read at distances of 300 feet (100 meters) or more, inside delivery trucks and packing containers, and in RF challenging environments that include metals, liquids or other dense materials. Intellex tags are cost-effective, reusable and have a typical battery life up to four years. Our tags feature onboard memory with the ability to store information about the asset (product type, serial numbers, product and distribution history). Optional tamper detection and sensor capabilities further extend tag functionality.

## XC3 Technology

Intellex solutions are enabled by Intellex XC3 Technology, allowing us to deliver the capability of active RFID-based solutions at a fraction of the cost.

- ISO/IEC 18000-6:2010 and EPC Global C1G2 standards-based
- Deliver read ranges in excess of 100 meters
- Easily read tags and monitor conditions and locations of assets
- Operate seamlessly in RF unfriendly environments inside trailers and around metals, liquids and dense packing materials
- Tags include on-board memory for tracking and storing information about the asset with multiple levels of security
- Intellex offers handheld and fixed readers, multiple form factor tags and antennas, as well as starter kits for piloting projects

## Intellex Products Related to this Solution

- HMR-9090 Handheld and FMR-6000 Fixed Readers and Antennas
- FBT-8400 Fob Tag
- BAT-8300 Badge Tag

## For More Information

To learn more please visit our website or contact us directly. We look forward to hearing from you.

[www.intelleflex.com](http://www.intelleflex.com)

+1 877 694 3539 Toll Free

+1 408 200 6500 International/Direct

[info@intelleflex.com](mailto:info@intelleflex.com)