



Asset Management - RTI

On-demand visibility for tracking and managing reusable transport items

Solution Benefits:

- Reduced costs for purchasing and renting assets and maintaining inventory stocks
- Improved supply chain operations including speedier order fulfillment
- On-demand information for real-time decision making
- Reduced labor costs
- More accurate deliveries
- Positive impact to the bottom line

The Intelleflex Reusable Transport Item (RTI) solution provides on-demand visibility for tracking and managing assets such as containers, bins, crates, pallets and roll cages. With Intelleflex XC3 Technology™, you can easily and cost-effectively track outgoing and incoming inventory and maximize utilization.

The Need for On-Demand Visibility

Inefficient RTI inventory tracking and visibility negatively impacts the flow of goods and materials throughout the supply chain. It results in delays in order fulfillment, misrouted goods, wasted labor, late deliveries to retailers and customers, and lost revenue. Even when assets exit and enter through controlled portals, they can be missed during peak operational periods and lost in a warehouse or loading area. Manual tracking methods increase labor costs and are prone to errors.

The Challenges

Distribution centers and warehouses can exceed 500,000 square feet — the size of over 10 football fields. At airports, where containers are shared across multiple airplanes and gates, it is difficult to track where the asset is located at any given time. Ports and rail centers face similar challenges. Simply knowing that you have available RTI inventory on hand is not enough — you need to know where it is at any given time.

Goods kept in RTIs need to be routed quickly and properly. Misrouted containers or time spent searching for the correct container in a warehouse, yard, loading dock or truck wastes time and delays deliveries, increases labor costs and result in unhappy customers, opportunity costs and lost revenues.

One way to ensure a smooth operation is to carry more RTI inventory than truly needed, but this increases capital costs and waste. A consequence of inaccurate accounting of RTI assets is that it results in unnecessary new purchases to make up for “missing” assets. Not knowing how many assets you have, where they are at any given time, and when they will be available results in thousands of dollars — if not millions — off your bottom line.

Finally, because RTIs move globally, tracking solutions must be internationally standardized, lightweight and inexpensive.

The key to profitability is maximizing the usage rate of each piece of reusable asset. Underutilized assets incur real expenses and opportunity costs for any company. Not knowing how often a piece of equipment is used can result in second guessing the true value to the business.

Businesses have been searching for better ways to manage these valuable assets. For years, RFID has been heralded as a possible solution but tracking RTIs poses a huge challenge for most RFID-based tracking and tracing solutions. RTIs are typically constructed of RF unfriendly materials including wood, metals and plastics, and often contain liquids, all of which make reliable reads challenging. This is further complicated by the sheer number of RTI units that block or interfere with RF signals.

A Complete Solution

Intelleflex delivers a cost-effective and reliable solution for tracking reusable assets. Intelleflex combines the power of our XC3 Technology with your existing assets and systems to produce an integrated solution for real-time visibility that improves decision making and asset utilization – contributing directly to your bottom line.

RTIs with Intelleflex RFID tags are automatically tracked as they move in and out of distribution and receiving centers, warehouses, airports, rail yards, ports and shipping environments. Intelleflex easily deployed readers and antennas, located at key entry and exit points and other critical locations, provide instant visibility to assets leaving and entering the premise, as well as identifying where the assets are located at any given time.

Intelleflex Extended Capability RFID™ solutions are designed for the most demanding environments. Tags can be automatically and reliably be read at distances in excess of 300 feet (100 meters) and are built to withstand outdoor temperatures, moisture and dust conditions. Tags can be effectively utilized in RF unfriendly conditions involving metals and liquids that are beyond the capabilities of passive RFID. Tags can be read inside trailers, pallets or containers without unpacking. Intelleflex tags feature on-board memory, enabling you to store and easily access a complete history of the asset (such as life, usage rate, etc.) directly on the tag.

Our solutions are designed to integrate with your existing applications and networks, or be used standalone without the need for complex backend systems. Flexible application options make it simple for your yard and office personnel to use the system.

XC3 Technology

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

- Based on ISO C3 and EPCglobal C1G2 standards for battery assisted passive RFID
- Deliver read ranges in excess of 300 feet/100 meters
- Read tags and monitor conditions such as temperature inside containers and pallets
- Operate seamlessly in RF unfriendly environments involving metals and liquids
- Tags include on-board memory for tracking and storing information about the asset or product with multiple levels of security
- Intelleflex offers handheld and fixed readers, multiple form factor tags and antennas, as well as starter kits for piloting projects

Intelleflex Products Related to this Solution

- Handheld and fixed readers and antennas
- Standard, metal and extended temperature tags

For More Information

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

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