SUPPLY CHAIN AUTOMATION

OSIRIS

TECHNICAL SYSTEMS

Enhance Supply Chain Automation for Enhanced Visibility with RFID

Supply chain and logistics decision-makers understand that speed is essential. Today, supply chains face disruptions in various ways than previously realized. Automation solutions from Osiris Technical Systems introduce both automation and agility to supply chains, providing a competitive edge.

Integrating an IoT system to track items moving through the supply chain allows organizations to gain unprecedented insights into their operations. This enhanced visibility can significantly improve decision-making and efficiency across the entire supply chain.
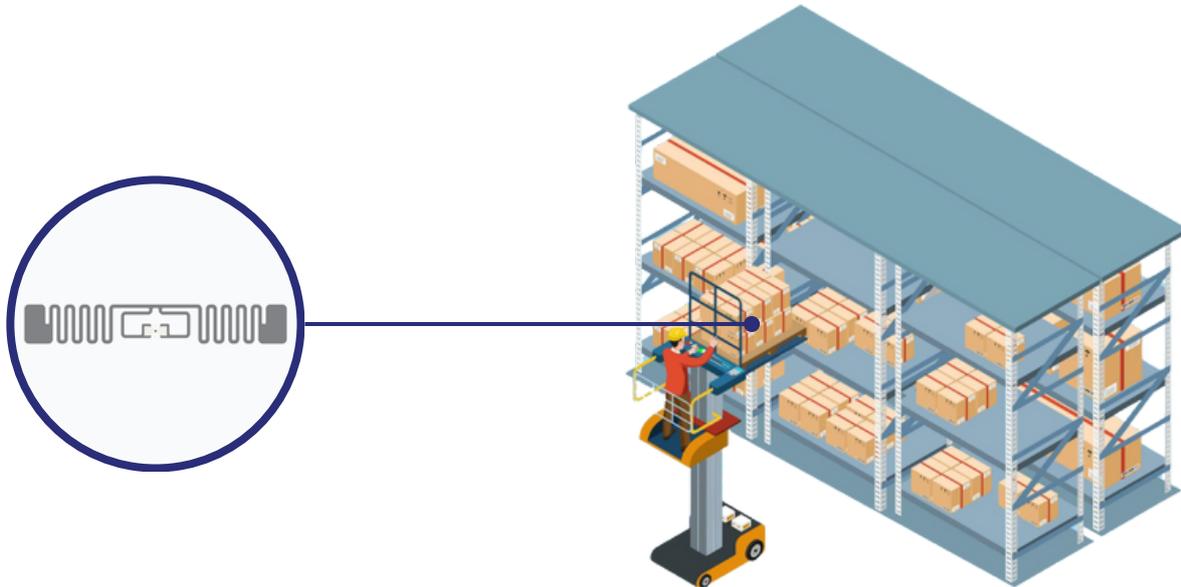
In the current market, retailers are confronted with rapidly changing customer behaviors, such as an increasing demand for innovation and the expectation of seamless, error-free services. Customers desire smooth interactions across multiple touchpoints, including e-Commerce platforms, supply chain processes, and in-store experiences.

Retailers must manage precise and adaptable operations throughout the entire value chain to transform the customer experience. From the storefront to the distribution center, and throughout the supply chain, Osiris Technical Systems' retail solutions effectively connect people, assets, and merchandise in innovative and impactful ways.

However, without automation, supply chain processes can be perilous. Manual operations increase the risk of errors, delays, and inefficiencies. These challenges can lead to significant financial losses, diminished customer satisfaction, and a weakened competitive position. The lack of automation may also hinder a company's ability to respond quickly to market changes or disruptions, making it difficult to maintain a resilient and reliable supply chain.

1 Tagging Inventory
Streamlining Goods Receiving Processes

By attaching RFID tags to products, supply chain professionals can swiftly scan entire pallets or shelves in just seconds, providing real-time updates on inventory levels.

Pallet Build Tagging: Placing a single RFID tag on a pallet that contains multiple items. This method allows for quick scanning and is particularly useful for tracking large quantities of products during shipping and receiving. It is efficient for inventory management at a macro level, providing an overview of stock movement without needing to identify individual items.

Batch Tagging: Tagging groups of similar items. This approach is useful when items are handled in bulk, such as in manufacturing or distribution settings. It allows for efficient management of product batches, ensuring that groups of items are tracked collectively, which is beneficial for quality control and batch monitoring.

Item-Level Tagging: Is the most granular approach, where each individual product is tagged. This method offers the highest level of detail, enabling precise tracking of each product's location and status. It is particularly advantageous for retailers and industries where individual item tracking is crucial, such as in fashion or electronics, allowing for enhanced inventory accuracy and product security.

Each tagging method offers unique benefits and can be chosen based on the specific needs of the inventory management process.

Reading Inventory
Tracking Inbound and Outbound Shipments

Barcode scanning requires a direct line of sight and often involves costly robots that must flip packages for proper orientation. Moreover, barcodes can become damaged or obscured, leading to scanning errors and inefficiencies. In contrast, an RFID Inventory Management System allows for the rapid identification of moving items without these constraints - whether they are on conveyors, hand trucks, or forklifts.

RFID tags, on the other hand, can be read from varying distances and through conducive materials, making them more versatile and reliable under diverse conditions. Implementing a smart system that enhances and simplifies operations, ensures that every item is accurately identified, every single time.
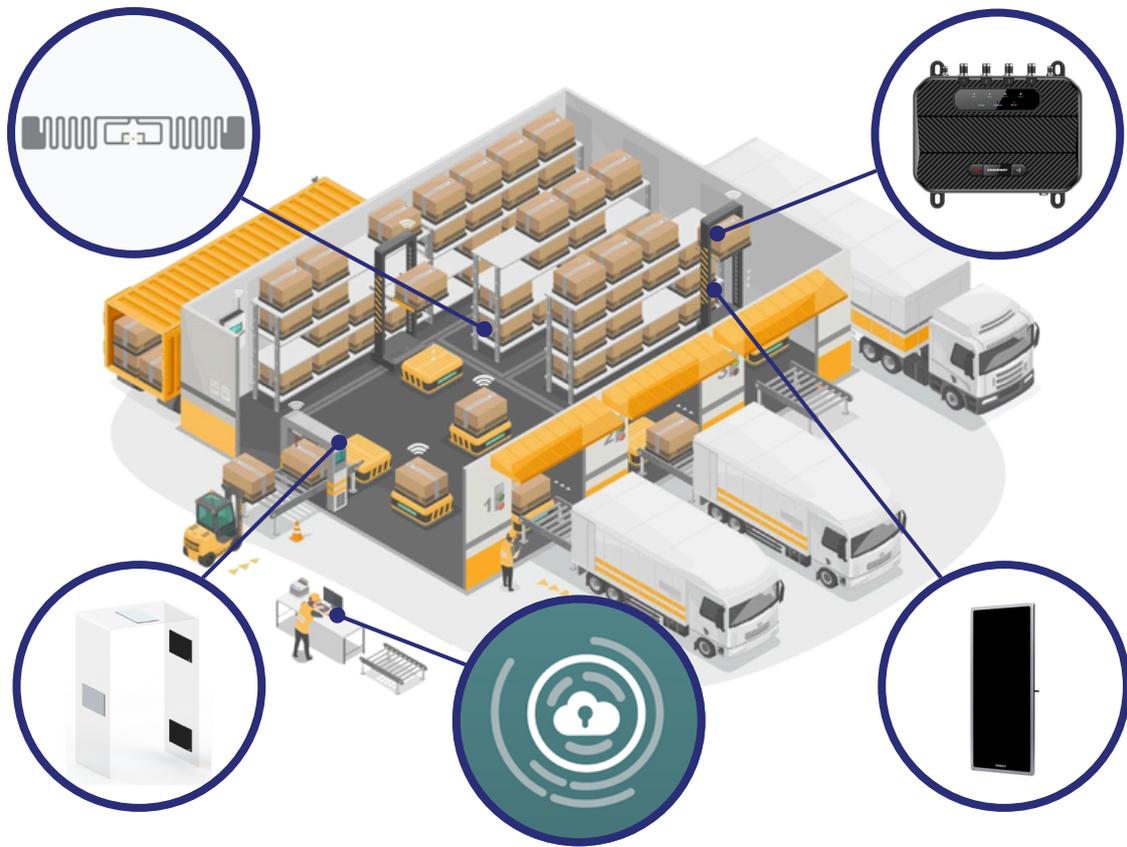
RFID technology also offers additional benefits such as reducing labor costs and human error - as it eliminates the need for manual scanning by teams. With comprehensive end-to-end tracking throughout beltways and conveyors, operators gain clear visibility into every aspect of the supply chain, allowing them to pinpoint inventory locations and identify disruptions in real-time.

This visibility not only aids in maintaining optimal stock levels but also enhances security by quickly identifying any theft or loss. Enhance your efficiency and discover new insights by monitoring everything in motion across all areas of your supply chain.

Furthermore, RFID integrates seamlessly with existing enterprise resource planning (ERP) systems, providing comprehensive data analytics that can lead to informed decision-making and strategic planning. By adopting RFID technology, businesses can improve customer satisfaction through faster order fulfillment and more accurate delivery estimates, ultimately boosting competitiveness in the market.

3 Monitor Inventory
Eliminate manual shipping errors

Since warehouse Management Systems (WMSes) track the receipt, storage and distribution of goods. A WMS stores data about inventory levels, product locations, restocking details and other information that users might require for supply chain management.

Users can integrate RFID technology with a WMS to potentially make product tracking faster, easier and more accurate. When goods arrive in a warehouse, employees can use an RFID scanner to scan the goods on each pallet and add the new stock to the WMS. As employees store products in the warehouse, they can scan the product and the bin number to enable location tracking. In addition, when pickers select goods, the pickers can scan each RFID tag, then mark the item as leaving the distribution center.

Revisiting errors can be expensive and undermine trust in the entire system. To avoid packing and shipping mistakes, implement instant audits of items ready for dispatch, which also eliminates the need for handling items multiple times. This approach enables teams to operate efficiently and ensures that customers receive exactly what they anticipate at the point of delivery. By verifying the accuracy of orders before they leave the warehouse, businesses can guarantee that packages arrive at their destination without errors, reinforcing customer satisfaction and trust.

Leverage complete supply chain visibility.

Leveraging complete visibility throughout the supply chain offers significant benefits for supply chain and logistics personnel. It enables real-time tracking and monitoring of goods, ensuring efficient operations and prompt identification of potential issues.

This transparency helps in optimizing inventory management, reducing delays, and minimizing costs. With comprehensive oversight, teams can make informed decisions, enhance coordination among stakeholders, and improve overall customer satisfaction by ensuring timely and accurate deliveries.

Streamline and automate processes for speedy delivery to the point of delivery.

Automating supply chain processes right to the point of delivery offers numerous benefits. It enhances efficiency by reducing manual errors and streamlining operations, leading to faster and more accurate order fulfillment.

Automation improves inventory management by providing real-time data, allowing for better stock control and demand forecasting. It also boosts productivity, as teams can focus on higher-value tasks rather than repetitive manual processes. Furthermore, it enhances customer satisfaction through timely deliveries and accurate order tracking, ultimately driving business growth and competitiveness.

Eliminate manual errors and ensure brand trust.

Supply chain automation can significantly reduce manual errors, enhancing efficiency and accuracy. By automating processes such as order verification and dispatch audits, businesses eliminate the need for repetitive handling and ensure that customers receive the correct items.

This not only improves operational efficiency but also boosts customer satisfaction and trust by ensuring error-free deliveries.

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