RFIDPROS
BY RMS OMEGA

Providing a targeted approach to strategic technology implementation.

RFID Solutions for Data Collection

RFID can tell you what an object is, where it is, and even its condition, making it an ideal solution for tracking assets and inventory in busy environments. In high-volume scanning operations, RFID allows you to collect data extremely quickly and accurately.

RFID solutions give you the real-time asset visibility you need to streamline operations.

Benefits of RFID Technology

Companies find that there are many benefits to using RFID solutions in their warehouse. RFID provides the following benefits for data collection over barcode options:

- Identify items without direct line-of-sight
- Identify 1,000's of items simultaneously
- Identify items within a specific range, from centimeters to meters
- Uniquely identify an individual item beyond just its product type
- Durable tags allow items to be read in harsh environments

What is RFID?

Radio frequency identification (RFID) is a form of wireless communication that utilizes radio waves to identify and track objects. RFID tags used to track and monitor each object are either active, passive, or battery-assisted passive, which is a combination of the two technologies.

Active tags have their own internal power source, usually a battery, and tend to be the most expensive. In passive RFID systems, the reader and reader antenna send a radio signal to activate and power on the tag, it then reflects energy back to the reader. Passive tags are typically the most economical. Battery-assisted tags use an integrated power source (usually a battery) to power on the chip when it is in the range of a reader.

RFID systems are also broken down into different frequencies: low frequency, high frequency, and ultra-high frequency. If an RFID system operates at a lower frequency, it has a shorter read range and slower data read rate, but increased capabilities for reading data near or on metal or liquid surfaces. If a system operates at a higher frequency, it generally has faster data transfer rates and longer read ranges but is more sensitive to interference from environmental factors, such as metal or liquids.

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The Total Solution: Hardware, Software, Services & Support

RFID Readers:

From the warehouse and loading dock a mobile, handheld or fixed RFID reader can help you achieve maximum visibility into your enterprise assets. Mount fixed readers to specific locations or utilize handheld readers for on the go data collection.

RFID Reader Antennas:

In combination with fixed readers, antennas deliver high-throughput and high capacity communication, enabling organizations to capture, move and manage critical information to and from every point of business activity.

RFID Printing & Encoding:

RFID printers print with traceable RFID tags to optimize supply chain management. From mobile to industrial printers, RFID printers can solve a variety of business applications. Choose from high or low volume printers based on your needs.

RFID Inlays & Tags:

With access to a wide variety of inlays and tags, let us help you find what you're looking for. Inlays and tags are available in all current frequency standards. Each tag offers a proven design that enables users to reach and sustain high levels of performance for a variety of environments.

RFID Software Applications:

Track items as they move through gateways and instantly transmit data back to your warehouse management or ERP system.

- **Automated Check-In / Check-Out of items**
- **Track when employees come and go**
- **Trigger an alarm when something leaves that shouldn't**
- **Quickly see what's in an area or location**
- **Know when something is missing**
- **See if an item is where it is supposed to be**

Professional Managed Services

We want to make sure you fully understand how to use your hardware, software, and technology systems to get the most out of your investment. Let us be your one point of contact - Get the help you need when you need it.

RMS Omega's Professional Services Department provides:

- **Authorized Repair Services**
- **Technical Support & Training**
- **Wireless Network Installation & Optimization Services**
- **Device Staging & Configuration**
- **Managed Services for Printing, Supplies, & Mobile Devices**
- **Project Management & Consulting**

Warehouse Applications

Inventory & Asset Tracking

RFID solutions provide up-to-the-second inventory levels enabling faster inventory turns and less stagnant stock.

Get real-time visibility and location data specific to warehouse aisles, shelves, and shelf level locations. RFID also allows you to keep track of not just pallets and boxes, but the contents inside the boxes as well.

Packing & Staging

Packing, staging, and loading are often the most manual processes in your warehouse and distribution centers and accuracy is critical. Fixed or presentation RFID readers ensure the highest level of accuracy while keeping your worker's hands free to focus on their jobs and remain productive.

Shipping & Receiving

The statement of work is a document that will map out our plan for implementation. This includes both hardware and software along with a description of processes after the system is complete. You will also receive a timeline for each phase of the project.