

Using RFID to Track and Manage Business-Critical Assets

Radio Frequency Identification (RFID) identifies and tracks the location and status of any business asset wirelessly and remotely. Using this approach, you can achieve comprehensive insight into all your business-critical assets:

- ▶ Know the location and status of any business asset
- ▶ Locate and track assets, equipment, tools, materials, inventory, and more
- ▶ Keep a full record of each asset's location, who used it last, where it has been moved, and even its maintenance or safety status
- ▶ Protect your assets by preventing loss and theft

How RFID Works

- 1 Print and apply an RFID tag to each asset you want to track.
- 2 Each tag is encoded with a unique ID and contains a radio chip and dual antennas to receive and transmit data.
- 3 A handheld or fixed RFID reader communicates with the chip to read and identify the tag.
- 4 Reading happens wirelessly and remotely, with ranges depending on the type of tag.
- 5 Each asset's unique ID is read and matched to an ID in a database with all other information about the asset.
- 6 Information such as location, status, and other customizable details can then be updated automatically and in real time using easy-to-use RFID software.

Why RFID Is Superior to Barcoding



- RFID enables accurate locationing, not just item-level identification.
- RFID doesn't require manual scanning or line-of-sight access to a label.
- Tags are scanned wirelessly at a distance, with ranges of a few feet to over 320 feet.
- RFID allows multiple items to be located, identified, and tracked by reading multiple tags at once.
- Fixed RFID systems can be used to automatically track assets as they enter or leave a location.
- Automated RFID alerts can notify managers of any exceptions or unauthorized movement.

Typical RFID Asset Tracking Applications



Traceability

Track and trace any asset to maximize availability and visibility while optimizing utilization and minimizing procurement costs.

Maintenance and Safety

Automate compliance, calibration, maintenance, and safety checks by using tags and software to keep records and schedule required work, inspections, and service.

Inventory Tracking

Track materials, parts, and finished goods, so you can achieve upstream and downstream traceability and make better management decisions.

Recommended RFID Technologies

Zebra is the global leader in RFID printers, readers, and tags—a complete portfolio of reliable and cost-effective RFID solutions.



RFID Tag Printers

Print encoded RFID tags on demand with unmatched quality and reliability.



Handheld Readers

Put the power of wireless and remote RFID tag reading in the hands of your workers.



Fixed Readers

Place fixed RFID readers above doorways or in other strategic locations for completely automated identification and tracking.



Antennas

Get accurate and reliable reads and data transmission with Zebra RFID antennas.

Where to Learn More About RFID

Contact AbeTech, the industry leader in RFID deployment and integration. Our experts will help you explore this technology and discover whether it's right for your business.

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