

Datasheet

Fujitsu RFID and Sensor Solution RFID Tracking Pro

Introduce RFID into operations at your own pace with a flexible, secure solution that supports multiple devices, input methods and enterprise systems

Traceability is fast becoming a requirement for efficient business operations and regulatory compliance. Businesses need to know the location, condition and history of their essential assets and must be able to produce the information in real time to satisfy enterprise systems, supply chain partners and regulators. Attaining real-time traceability is a challenge because the processes to identify, track and validate items typically consume hundreds of man-hours, introduce the risk of data entry errors and slow down cycle times – which all build unnecessary costs into operations.

With Fujitsu RFID Tracking Pro you can build traceability into your business processes – and right into parts and other items themselves. RFID Tracking Pro provides the foundation for traceability. It provides accurate, up-to-date, item-level data that is easily accessible without requiring complex integration, data mapping or device configuration. By taking the complexity out of collecting and sharing information, RFID Tracking Pro makes it easy to provide accurate, real-time data wherever it is needed.

RFID Tracking Pro facilitates the deployment of an RFID infrastructure to collect, process and share input from RFID, bar codes and sensors. It is highly scalable and configurable so you can quickly create new RFID-enabled business processes.

Why Use RFID?

Serial numbers and other unique item identification methods (e.g. SGTINs, UIDs, CAGE codes, etc) are essential to many industries. Finding and entering serial numbers and other item identification can be very time

consuming and inefficient. Bar codes can help, but they are very limited because the symbols must be located to be scanned and even then aren't always readable. RFID brings accuracy, automation and certainty to processes that require materials, parts, assemblies and other items to be identified, tracked and managed.

RFID takes the effort and errors out of item identification by automatically locating and recording tagged objects within their read field. A few of the RFID-enabled business processes used in industry today include:

- Work-in-process tracking
- Inventory control for materials, parts, tools, equipment and other assets
- Packing error proofing/shipment verification
- Automated receiving
- Part authentication
- Automated inspections
- Continuous monitoring and location reporting
- Part identification to support maintenance management

With RFID Tracking Pro you can RFID-enable these and other processes without ripping out and replacing the systems you already have because it supports multiple input technologies and enterprise systems.

RFID Tracking Pro is Flexible, Scalable and Configurable

RFID Tracking Pro puts you in charge of the speed and scale of your RFID projects by reducing the time needed to create, deploy and expand systems. It has a middleware



component with the native ability to accept RFID, bar code, text and sensor input. RFID Tracking Pro parses the input and provides properly formatted data to enterprise systems that need it, including databases and ERP applications.

RFID Tracking Pro comes with the tools you need to develop RFID-enabled work processes and integrate them with your legacy enterprise systems.

- It works with all GS1 EPCglobal Gen 2 readers that support the Low Level Reader Protocol (LLRP), including multiple models from Impinj, Motorola and other industry leaders.
- It has extensive tag reading and filtering capabilities that are user configurable. You can take advantage of them to control what information is passed from tags to readers and software applications.
- Tag data can be output through TCP/IP, HTTP and in different database and file formats for easy integration with host systems. You can process the output to receive automatic notification of business events via email, text or updates to a web page.
- Multiple industry data structures are supported, including SPEC 2000, UID, SGTIN-96 and others.

Part Tracking Module

RFID Tracking Pro comes with a pre-built client/server part tracking application that users can modify by adding data fields, setting alerts and reports, and configuring other features to serve their own needs.

- The module automatically processes tag data that readers send to the middleware.
- It uses a relational database to record the location and status of each item and to automatically build an audit trail of all movements and transactions.

- The application can automatically generate text, email and other alerts.
- Item records can be associated with documents, pictures and other supporting information at any time to track repair conditions, certifications, etc.
- RFID Tracking Pro includes an automated check-in/check-out process that can be used for parts, materials, tools and other items. Readers can be set to sense the direction of moving objects to automatically detect whether they are moving in, moving out or are being removed without authorization.
- The software can be easily configured for other use cases, including work-in-process tracking, inventory control, equipment inspections and more.

Part Validation Module

This module makes it easy to build more security into your products and processes. It can automatically query an item and validate the information stored in its RFID tag.

Potential uses include:

- Authenticate products and their distribution channels – When used with security tags, the querying and authentication functions can detect if tags or packages were tampered with at any point in the supply chain.
- Validate newly commissioned tags – Ensure that every item is properly identified with a functioning tag that meets content and data format requirements. You can also automatically record newly tagged items in a reference database and cross-check that the RFID tag data matches how the product is labeled.

The modules and applications created with the middleware can run independently or be integrated with enterprise systems, in any combination. You are in control of how RFID data is produced, collected and used throughout your operations.

RFID Tracking Pro provides the foundation for introducing RFID data collection and management to enterprise operations. It makes it easy to deploy an RFID infrastructure, to capture and work with RFID data, and to create your own applications and RFID-enabled business processes. It complements Fujitsu's other resources that enable rapid RFID deployments, including the Fujitsu AIT Part Marking Solution that simplifies the process of RFID part marking and data management. It is also part of the Fujitsu Technology and Services Vision for integrating a variety of sensors to support RFID-enabled parts and operations management.



Contact

Japan Office

Fujitsu Limited
AIT-Smart Network Division
Phone: +81 3 6252 2612

North America Office

Fujitsu America Inc.
New Solution Business Unit
Phone: +1 425 451 3100

Europe Office

Fujitsu Technology Solutions
Phone: +49 89 62060 4409

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E-mail: ait-fujitsu@ml.css.fujitsu.com

Website: www.fujitsu.com/global/solutions/business-technology/intelligent-society/ait/