

RFID SOLUTIONS THAT KEEP YOU ON TRACK

- Balise System
- Yard Management System
- AEI Automatic Equipment Identification

http:// WWW.INTERTECHRAIL.COM

Introducing Intertech Rail®

20 YEARS OF FORGING SAFER AND RELIABLE RAILWAYS

Since 2004, Intertech Rail has been dedicated to providing secure and dependable rail solutions.

Headquartered in Coral Gables, Florida, we serve a wide range of international clients.

Our main product lines include:



Railway Software & Management Systems

- Yard Management Systems
- Rail-Intermodal RFID Solution
- Balise System



Safety & Control Components

- Fail-safe Relays
- Switch Machines

CLIENT PORTFOLIO



























HITACHI









Intertech Rail- AEI - TRACKING SYSTEM

AEI (Automatic Equipment Identification) system uses RFID tags and a specialized portal to track and identify rail equipment, including railcars and locomotives. It provides precise train formation and asset control.



Rail-ID® Yard Manager & Dispatcher System

- Fully integrated with our readers
- Cloud Server, accessible anywhere in the world
- Available on cloud and on-premises installations





Rail-ID® Software

CLOUD SERVER:

- Service for reading and processing Automatic Equipment Identification
- API and database connection to any customer system
- Dashboard for data control and visualization

CARGO RECOGNITION & CAMERA:

- · Load reading and identification via camera
- · Automated load verification aligned with scales
- Wagon reading with camera for asset control

TRAIN CONSIST:

- Asset management for locomotives and wagons
- Control of train compositions using RFID tags



Xtreme Multiprotocol Reader

- Rugged RFID reader with IP65/67 rating
- Manages up to four antennas
- Wide power range (12 a 110 VDC)
- Programmable RF attenuation and frequency
- Complies with AREMA

Yard Reader

- Integrated RFID all-in-one, easy installation and maintenance
- Integrated RFID reader for yard management and mainline asset control.
- Supporting multiple protocols (SeGo, eGo, ATA/AAR, IAG) with built-in translator.
- Programmable RF settings
- Water-resistant enclosure, available with internal and external antennas



Harsh Environment Tag

AT5118-AAR V5 STANDARD TAG

- Beam-powered RFID tag for harsh environments
- 915 MHz and 870 MHz frequency, weatherproof shell
- 1088-bit capacity, no battery needed
- · Mutual authentication for data security
- Compatible with Amtech® and TransCore® readers

High-Temperature Tag

- High-temperature resistant RFID tag
- Operates up to 350°F (177°C)
- · Beam-powered, no internal battery
- Data security with factory-locked and userprogrammable fields
- Weather-resistant construction



Gain real-time visibility and control over your rail yard.

Track every car, streamline operations, and reduce delays: for safer, faster, and more efficient performance

- Real-time train positioning
- Railcar Component Tracking
- Handles complex, high-volume traffic
- Al integration for maneuver suggestions
- Centralized control interface

- Scalable to any yard size
- Smooth, reliable performance
- Streamlined workflow, higher productivity
- · Reduced delays through better visibility
- Safer, more organized yards

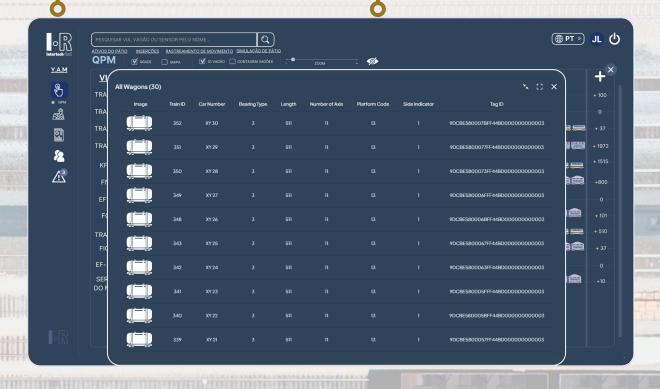




Customizable reports (KPIs)

Generate reports tailored to your operational goals, with key performance indicators

Seamless integration
Easily connects with AEI systems and
existing infrastructure.



Detailed Car Positioning &Railcar Information

View precise wagon locations and access comprehensive, real-time data.

Enhanced Yard Safety

Avoid traffic congestion and operational hazards using system insights.

Track View



ADVANCED RAILWAY SOLUTIONS FOR THE FUTURE: RAIL-ID®



Discover Rail-ID®'s suite of cutting-edge railway solutions to enhance operational efficiency and reliability. Our technology ensures seamless identification, tracking, and management for the global rail industry, meeting the highest standards of performance.



Rail-ID® Server



A versatile solution is available in both cloud and on-premises formats. Manages RFID reading points and wayside equipment to ensure high-performance operations and reliable data.





A state-of-the-art hand-held reader and programmer that allows users to manage railcar RFID data directly in the field.





Rail-ID® Eyes

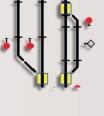


Video recognition system that enables the identification of cargo inside railcars using the Rail-ID Eye module, integrated with the local Rail-ID Xpress.

Rail-ID® Dispatcher



On-premises railway dispatcher that integrates with various interlocking systems to enhance and streamline dispatch operations.







Rail-ID® Edge



The remote terminal unit Edge is responsible for integrating readers and equipment directly into the field. Supports GSM, WiFi, Fiber, and Ethernet for flexible and robust communication.

Rail-ID® Xpress



A minimalist local Rail-ID Server that integrates with readers, wayside equipment, and/or the Rail-ID Eye camera system directly in the field. Ideal for stand-alone applications where a full server is not required or where a camera is installed.



Rail-ID® Yard



Rail yard and asset management system that oversees all assets within a rail yard, including railcar identification and location tracking.





Rail-ID® Digital Wheel Sensor



Digital wheel sensor that provides precise wheel identification and enables the Rail-ID Server to calculate train consists with high accuracy.



AAR-approved RFID readers and antennas, powered by Rail-ID, ensure reliable and efficient operation.



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Intertech Rail - BALISE SYSTEM

Integrates ATC systems with RFID Balises and locomotive readers, relaying critical information such as speed limits and track conditions. This enables automatic speed control and emergency braking, enhancing safety, optimizing train headway, and boosting productivity. The system is extensively compatible with various ATC/ATO systems.



Model 2 - RFID Programmer

- Rugged tablet with TransCore RFID technology
- Supports 915MHz and 870MHz RFID variants
- Durable for extreme temperatures, dust, and moisture
- Connectivity: WiFi, Bluetooth®, USB, RS232
- Includes barcode scanner, front and rear cameras, and GPS



Response: # <37@(D<R #4 S0 Q)X)&15:41:29.24 02/23/23%00-0-22-0 # '/@(D<R \$-['@ QOC'&15:41:28.66 02/23/23%00-0-0-7-0 # <37@(D<R #4 S0 Q)X)&15:41:28.46 02/23/23%00-0-0-0-0 # >/'@(D<R \$-['@ QOC'&15:41:27.90 02/23/23%00-0-24-0 # >/'@(D<R \$-['@ QOC'&15:41:27.90 02/23/23%00-0-45-0 # :37@(D<R #4 S0 Q)X)&15:41:23.30 2/23/23%00-0-09-0 # :37@(D<R \$-['@ QOC'&15:41:24.03 02/23/23%00-0-15-0 # >''@(D<R \$-['@ QOC'&15:41:23.01 02/23/23%00-0-15-0 # >''@(D<R \$-['@ QOC'&15:41:23.01 02/23/23%00-0-23-0

Transmit All

Number of Reads:0

Rail ID WCS

CLEAR

CONNECT

- Tag programming and reading
- Functional testing of tags
- Remote update of MPRX firmware
- Functional testing of MPRX



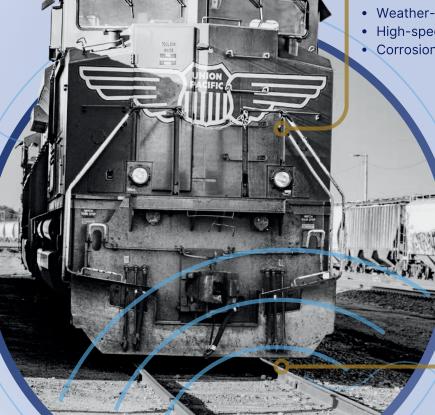
Multiprotocol Reader

- Rugged RFID reader with IP65/67 rating
- Wide power range (24-110V DC and 12-24V DC)
- Programmable RF attenuation and frequency
- Complies with AREMA
- Protocols: ATA/AAR, SeGO, eGO



Heavy Rail Antenna

- Robust 870/ 915 MHz antenna for train undercarriages
- High shock and vibration resistance
- Accurate location tracking and AEI
- Weather-resistant radome
- · High-speed reading up to 75 mph
- Corrosion and chemical-resistant



Harsh Environment Balise

- Beam-powered RFID tag for harsh environments
- 915 MHz frequency, weatherproof shell
- 1088-bit capacity, no battery needed
- Mutual authentication for data security
- Compatible with Amtech® and TransCore® readers



- Externally-powered RFID tag for rail traffic monitoring
- Connects to rail signal light systems
- · Operates on AC or DC power
- Weather-resistant includes 37-inch twowire interface cable





All our products are made in the USA.

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