



















# RAIL

## Freight and Mass Transit

	COUNTRY	KEY INSTALLATIONS
AFRICA	<b>SOUTH AFRICA</b> 	<ul style="list-style-type: none"> <li>● Coal Link</li> <li>● Orex</li> </ul>
	<b>CHINA</b> 	<ul style="list-style-type: none"> <li>● Ministry of Railways</li> </ul>
ASIA	<b>JAPAN</b> 	<ul style="list-style-type: none"> <li>● Shikoku Japan Railway Company</li> <li>● Teito Rapid Transit Authority</li> </ul>
AUSTRALIA	<b>AUSTRALIA</b> 	<ul style="list-style-type: none"> <li>● Pacific National Rail</li> <li>● Queensland Railway</li> </ul>
EUROPE	<b>AUSTRIA</b> 	<ul style="list-style-type: none"> <li>● Krems Chemie</li> </ul>
	<b>BELGIUM</b> 	<ul style="list-style-type: none"> <li>● Brussels Metro</li> </ul>
	<b>FRANCE</b> 	<ul style="list-style-type: none"> <li>● Compagnie Nouvelle de Conteneurs</li> <li>● Norsider</li> <li>● SCAC Delmas Vieljeux</li> <li>● Société Nationale des Chemins de fer</li> <li>● Sollac</li> </ul>
	<b>GERMANY</b> 	<ul style="list-style-type: none"> <li>● Hamburg Metro</li> <li>● Kombiverkehr</li> </ul>
	<b>ITALY</b> 	<ul style="list-style-type: none"> <li>● Ferrovie Dello Stato</li> </ul>
	<b>POLAND</b> 	<ul style="list-style-type: none"> <li>● Polskie Koleje Panstwowe</li> </ul>
	<b>SPAIN</b> 	<ul style="list-style-type: none"> <li>● Barcelona Metro</li> <li>● Madrid Metro</li> <li>● Red Nacional de los Ferrocarriles Espanoles</li> <li>● Semat</li> </ul>
	<b>SWEDEN/NORWAY</b> 	<ul style="list-style-type: none"> <li>● Malmbanan Ore Line</li> </ul>
	<b>SWITZERLAND</b> 	<ul style="list-style-type: none"> <li>● Schweizerische Bundesbahnen</li> </ul>
	<b>UNITED KINGDOM</b> 	<ul style="list-style-type: none"> <li>● Combined Transport Limited</li> <li>● Eurotunnel</li> <li>● London Underground</li> </ul>
NORTH AMERICA	<b>CANADA</b> 	<ul style="list-style-type: none"> <li>● Canadian National Railroad</li> <li>● Canadian Pacific Railway Company</li> <li>● Toronto Transit</li> </ul>
	<b>UNITED STATES</b> 	<ul style="list-style-type: none"> <li>● Burlington Northern Santa Fe Railroad</li> <li>● Consolidated Rail Corporation</li> <li>● CSX Transportation</li> <li>● Illinois Central Railroad</li> <li>● Jacksonville Transit Authority</li> <li>● Kansas City Southern Railway Company</li> <li>● Massachusetts Transit Authority</li> <li>● Metropolitan Atlanta Rapid Transit Authority</li> <li>● Newark Airport Transit System</li> <li>● Norfolk Southern Corporation</li> <li>● San Francisco Bay Area Rapid Transit</li> <li>● Union Pacific Railroad</li> <li>● Wisconsin Central Railroad</li> </ul>
SOUTH AMERICA	<b>BRAZIL</b> 	<ul style="list-style-type: none"> <li>● CVRD Railroad</li> </ul>
	<b>CHILE</b> 	<ul style="list-style-type: none"> <li>● Codelco</li> </ul>

More than 15 million tags and 32,000 readers with Amtech® technology have been distributed in these transportation industries: electronic toll and traffic management, rail, intermodal, fleet, and access control for parking, security, airports, and ground transportation.

# ACCURATE, REAL-TIME DATA FOR BETTER UTILIZATION AND EFFICIENCY

TransCore provides the freight rail industry with automatic equipment identification (AEI) systems using Amtech® brand RFID technology. AEI increases equipment utilization and reduces re-handles, dwell times, and overhead.

Mass transit rail agencies use TransCore systems for automatic train positioning and train separation. Reliable, accurate train positioning increases the overall efficiency and cost effectiveness of the entire train control system, while improving passenger safety.

## BENEFITS

- Improves asset tracking, management, and utilization
- Reduces operating costs
- Facilitates real-time reporting
- Eliminates costly human errors
- Improves safety
- Enhances reliability
- Maximizes efficiency

## APPLICATIONS

### *Automatic Equipment Identification*

- Railcar and equipment tracking
- Yard management/equipment inventory control
- Gate access control
- Fuel terminal authorization

### *Automatic Equipment Monitoring*

- Locomotive, generator, or refrigerator fuel level assessment
- Cushioning device monitoring
- Moisture and leak detection
- Door opening detection
- Temperature monitoring

### *Automatic Train Positioning*

- Identifies train location
- Monitors train speed
- Controls arrival and departure information
- Controls onboard announcements

## INDUSTRY STANDARDS

TransCore is the only company that meets AEI standards worldwide in all transportation market segments.

- AAR – Association of American Railroads S-918 mandated standard for automatic equipment identification
- ISO – International Organization for Standardization I0374.2 standard for intermodal freight containers
- CEN – Comité Européen de Normalisation EN I0374 for automatic container identification
- ANSI – American National Standards Institute MH5.1.9 standard for automatic identification of freight containers
- ATA – American Trucking Associations standard for automatic equipment identification
- Title 21 – California Department of Transportation Title 21, compatibility specifications for automatic vehicle identification equipment

For more information, call: 1.800.923.4824

[www.transcore.com](http://www.transcore.com)

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