Get Your Rail Operations On Track With TransCore

Improve your train operations with the proven reliability and cost effectiveness of TransCore’s Amtech systems. We can design an RFID-based technology solution that increases system efficiency by providing information to maintain traffic flow, and minimize delays while enhancing safety and improving customer service. Our technology can be customized to meet your individual system specifications.

For more information:
Call 214.461.6443 or email ContactUs@TransCore.com

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TransCore’s radio frequency identification (RFID) automatic equipment identification (AEI) solutions can help improve operational efficiency for mass transit systems. Location and time data collected from our technology enables better management and improves performance to increase train operation monitoring and control functions to achieve safe functional operations.

Better Data for Better Performance
TransCore has pioneered AEI for various transportation applications. Radio frequency (RF) based systems are the technology of choice for rail applications around the world. Other monitoring systems are complicated and a time-consuming process, where mistakes result in delays and frustration.

Our systems also enable better management of train operations with automatic train positioning for communications-based train control (CBTC) applications such as automatic train location (ATL), automatic train separation (ATS), and automatic train operations (ATO). Our on-board interrogators (readers) and track bed-mounted transponders (RFID tags) can also activate subsystems such as audio and visual annunciation.

TransCore offers reliable AEI solutions for automatic data capture. Our RFID tags combined with a reader system eliminates other error-prone systems by collecting data electronically. RFID tags attached to rolling stock and readers stationed at strategic points along the route capture data stored in the tag and transmit this data to a host computer. Automation simplifies system management functions and train control.

TransCore-based systems provide:
- Accurate information for management decisions
- Automation for operational flexibility
- Timely data to increase capacity and speed
- Arrival and departure data for signal and control operations

Increase Safety and Improve Operations
TransCore’s AEI solutions can help improve safety and passenger comfort. Our technology provides accurate position information so that the train’s onboard control system can determine speed and distances. This allows operators to better manage their resources, saving money and increasing safety.

In addition, accurate train positioning can be used by the train operations control center to react to conditions such as temporary speed restrictions or malfunctioning trackside controls. Advanced warning about such impediments enables trains to make smoother adjustments and thus provide a more comfortable ride for passengers.

Improve Customer Service
Trains running on time makes customers happy. TransCore’s transponders and interrogators can help both heavy and light rail transit systems run on schedule. Using real-time data, train controllers can monitor the location and route of every train and pinpoint the position and separation of trains. This improves the efficiency of train signaling and control systems and enables more reliable on-time arrivals and departures during peak hours.

By maximizing the number of people moving safely and comfortably through the rail network, the entire operation becomes more cost effective. With TransCore’s proven technology, controllers can increase the number of trains moving along the line. For your passengers, more departures mean more seats, more space, and less waiting. For you, greater customer satisfaction means increased ridership and positive publicity.

Flexible Configurations to Match Any Operation
Our systems can be easily configured to meet the individual needs of your operations. Reader/interrogator mounting configurations include both onboard and wayside. For systems with onboard configurations, readers (interrogators) are mounted on your train while the transponders are mounted to the track bed. With wayside configurations, readers are mounted along the side of the tracks with tags attached to each railcar or coach. Or, the reader’s external antenna is mounted on the track with a simple tag attached underneath the railcar or coach.

Experience in Moving People Forward
Mass transit agencies all over the world trust TransCore’s RFID-based systems to provide precise, accurate data as part of train control and signaling systems that have improved services and safety for passengers.

Proven Technology that Sets the Standard
Worldwide, TransCore has distributed millions of RFID tags and thousands of readers to 51 countries to automatically identify, track, and monitor vehicles. TransCore’s AEI solution meets worldwide railway AEI standards and has been adopted by nearly all countries around the world. Examples include China, Australia, South Africa, Canada, Mexico, South Korea, Brazil, England, and the USA.

Key applications: automatic train positioning (ATP), automatic train separation (ATS), automatic train locations (ATL)

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