

*A striking evolution in railroad electronics that improves reliability, safety and locomotive availability.*

*A generation ahead of its time, a generation ahead of its competitors.*



## ***FIRE Power***

Functionality Integrated Railroad Electronics (FIRE) is the most advanced system designed for locomotive management. It improves safety, enhances crew operations and improves the engineer's management of locomotive performance.

Two integrated display computers (plus an optional third assembly for the conductor) replace more than a dozen standard cab gauges, indicators and controls. The assemblies are networked to provide greater processing power. Instead of one central computer, the FIRE system incorporates as many as three.



## ***FIRE Compatibility***

FIRE is not only for new power -- locomotives in an existing fleet may be retrofitted as well. This will make the majority of fleets operationally compatible with new locomotives at a price that makes the retrofit an easy business decision. Even if there is no immediate need for new power, take advantage of current and future technology by retrofitting with FIRE.

## ***FIRE Integration***

FIRE offers all the functions you expect, including over-speed warning, event recorder, alerter and more. The real power of the system lies in its computer/display assemblies and the electronic systems integration's testing.

Combined with Integration Lab (I-Lab), FIRE offers a cab electronics test setting not found in any other lab. I-Lab consists of a full set of every cab electronics system applied to AC locomotives today.

This gives the ability to test all electronics systems simultaneously for proper communications and functionality. The cab electronics configuration of every system ordered will be tested prior to production and field application. Testing systems in I-Lab provides a method to improve configuration management and deliver higher reliability, meaning greater locomotive availability.



## ***FIRE Effectiveness***

FIRE improves crew safety and operational effectiveness by displaying information in a central location when the crew requires it, leaving more time to concentrate on train operation. Critical information and warning messages are presented only when needed, further reducing the need for constant monitoring of the displays.

## ***FIRE Savings***

FIRE reduces maintenance costs and service delays by allowing maintenance personnel to quickly diagnose locomotives using the onboard displays. Fault data can be accessed for efficient troubleshooting and maintenance without removing the locomotive from service.

The FIRE platform is designed to offer true and simplified integration of cab electronics, providing future growth at an attractive cost. Current and future cab electronics can be easily integrated into the system, without the need for additional black boxes.