ZTR

# NexSys

LOCOMOTIVE CONTROL SYSTEM

## Smarter Locomotive Control. Better Decisions. Proven Savings.

**Microprocessor-Based Control | Fuel Optimization | Remote Diagnostics | Modular Upgrades**

NexSys IIIi is an advanced, modular locomotive control solution that delivers immediate and long-term operational value. Whether you're rebuilding aging units or upgrading select subsystems, NexSys unlocks reliability, performance, and connectivity across your fleet, from switchers to road locomotives.

### Trusted Globally. Proven at Scale.

» 2,500+ NexSys IIIi systems deployed

» In service with all Class I railroads

» 15,000+ ZTR control systems sold worldwide

### MODULAR ADD-ONS & INTEGRATION

- **Microprocessor-Based Control:** Replace aging, unreliable relays and obsolete systems with solid-state intelligence
- **Fuel Management & AESS:** Integrated SmartStart AESS to eliminate unnecessary idling and save up to 8,000 gallons (30,000 liters) of fuel per locomotive annually
- **Remote Monitoring & Diagnostics:** Track faults, view performance trends, and receive alerts via ZTR's Vision platform
- **Compact Design:** Over 60% more cabinet space freed up (vs. legacy systems)
- **Improved Adhesion:** Up to 44% better dry-rail and 29% better wet-rail traction
- **Built-In Voltage Regulator & Battery Charging – f**ewer external modules needed

**REMOTE REPORTING** | **LOCOMOTIVE CONTROL** | **EMISSION REDUCTION**

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## MODULAR ADD-ONS & INTEGRATION

Upgrade further with optional modules and integrations, tailored to your application:

- **ILD (Integrated Locomotive Display)** – digital speedometer, train length counter, graphical diagnostics, overspeed warnings, status icons & more
- **E-Governor Integration –** simplifies mechanical-to-electronic transition with remote engine diagnostics via Vision platform
- **CCB IIe / CCB26 Compatibility –** for EAB-equipped units
- **Mother-Daughter Control –** synchronized throttle and braking in multi-unit switching operations

## REMOTE MONITORING AND DIAGNOSTICS

**Stay connected to every locomotive, anywhere.**

With NexSys integrated into ZTR's Vision platform, you gain real-time access to fleet performance, health data, and diagnostic alerts. From any device, maintenance teams and fleet managers can:

- Monitor locomotive status and key metrics remotely
- View fault codes, battery health, and engine data
- Receive diagnostic alerts and warnings in real time
- Reduce troubleshooting time and avoid unnecessary downtime
- Make informed, data-driven decisions for maintenance and operations

**Modernize your fleet with NexSys - the digital backbone that transforms locomotives into reliable, efficient, and fully connected assets.**

Scan to Learn More

**Contact ZTR:**

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