

ARMMI

PROGRAMMABLE PROCESSOR

The ARMMI programmable rail processor enables advanced switch control, event logging, and seamless integration with rail automation systems.

The ARMMI's customizable smart display shows firmware and project details, configuration settings, communication addresses, and battery voltage. Its OLED screen is easy to read day or night and supports troubleshooting without a web browser. This programmable processor can control yard switch machines, crossovers, gates, bridges, crossings, derails, and blue flag systems, and is programmable for any task compatible with its inputs and outputs.

- Compact Design
- User-friendly
- Event Log Up to 72,000 Events
- Web Browser Access
- Operational Temperature -40°C to 85°C



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AdvancedRailSystems.com

ARMMI Programmable Switch Processor

Versatile Control for Rail Operations

The ARMMI Programmable Rail Processor is a PLC-style controller designed to manage a wide range of yard equipment, including single switches, crossovers, gates, bridges, crossings, derails, and blue flag systems. Its customizable architecture allows all inputs, outputs, and communication interfaces to be defined by the installed program, making it adaptable for standard or specialized applications. ARS offers pre-tested configurations for common uses and can create custom solutions for unique operational needs.

Customizable Smart Display

An OLED smart display, readable in all lighting conditions, provides instant access to firmware and project details, configuration parameters, communication addresses, diagnostics, battery voltage, and more. Automatic display-off after inactivity saves power, while push-button navigation allows quick troubleshooting without a web browser.

Built for Harsh Rail Environments

Housed in durable aluminum, the ARMMI is designed for operational temperatures from -40°C to 85°C, with low power consumption and rugged construction to withstand the toughest rail yard conditions.

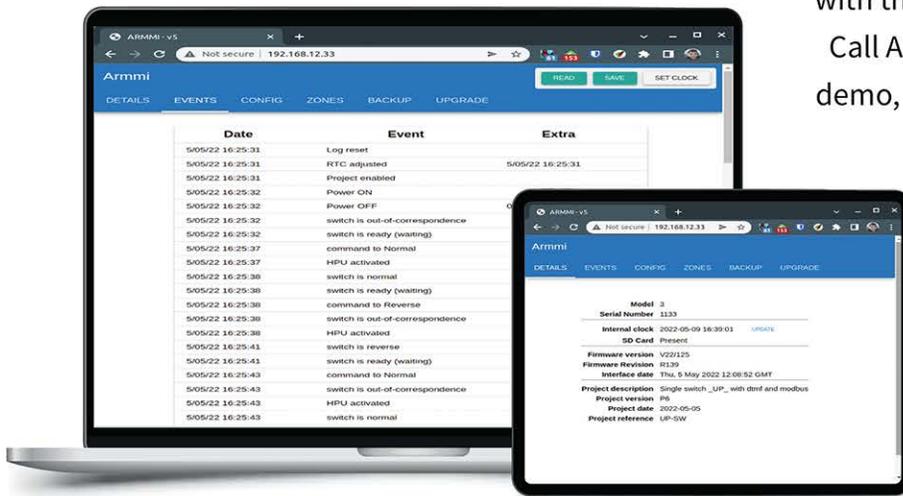
Flexible Communication & Control

Supports Network IP, RS-232, RS-485C, CAN BUS, and integrated DTMF decoder with audio. Compatible with Genisys, Modbus TCP/RTU, ASP, and MQTT protocols. Web access enables configuration and review of up to 72,000 event logs.

Integrated System Coordination

Coordinates with Pathfinder Yard Automation and other rail systems for synchronized, efficient operations, real-time data sharing, and proactive issue detection.

Web Access



Take Control of Your Yard Operations

Unlock the full potential of your rail automation with the ARMMI Programmable Rail Processor.

Call ARS today to request a quote, schedule a demo, or speak with our technical team about

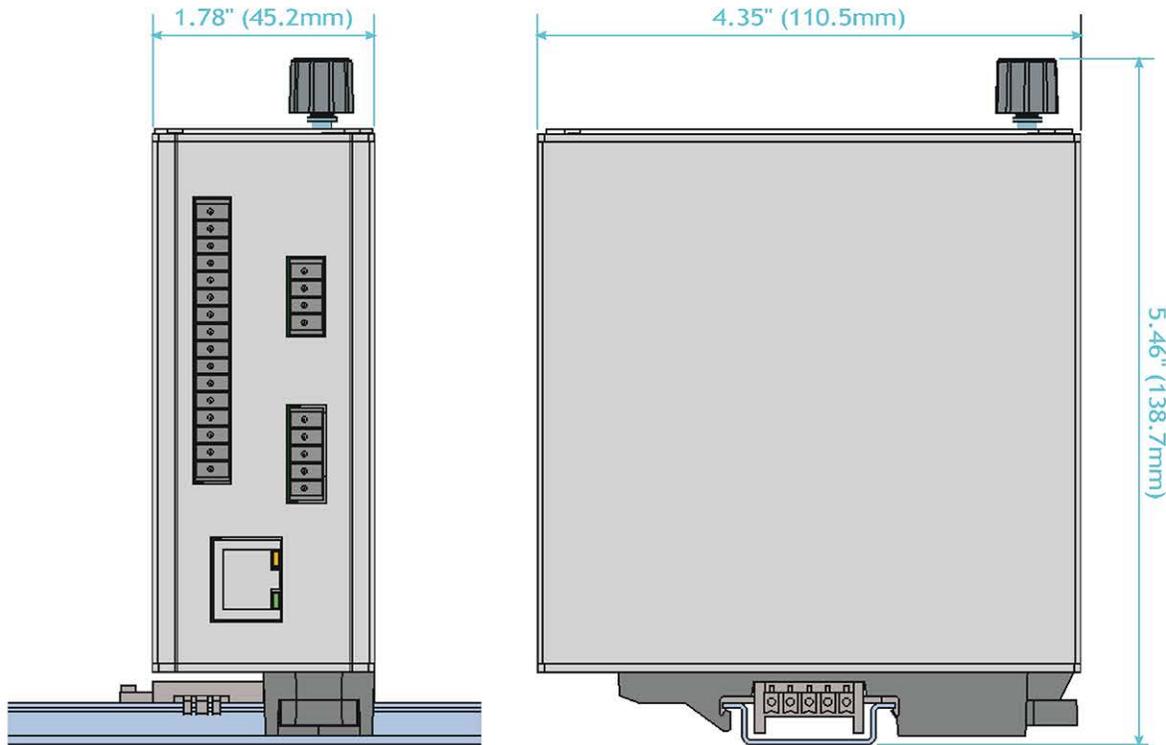
a configuration tailored to your specific needs. Your smarter, more efficient yard starts here.

 (254) 252-3005



Scan the QR code to find out more about Advanced Rail Systems and the ARMMI Programmable Switch Processor.

Product Dimensions



Key Features

| SPECIFICATION | FEATURES |
|-------------------------|--|
| Switch & Device Control | Operates single switches, crossovers, gates, bridges, crossings, derails, blue flag systems |
| Customizable Logic | Programmable for ARS and legacy machines; adaptable for specialized applications |
| OLED Smart Display | 0.75" x 2.75" display with firmware/project info, parameters, diagnostics, battery voltage, temperature, clock, alarms, graphics |
| User Interface | Encoder/push-button for menu navigation; basic troubleshooting without web browser |
| Web Access | Configure applications and view up to 72,000 event logs remotely; micro-SD backup |
| Communications | Network IP, RS-232, RS-485C, CAN BUS, DTMF decoder, audio |
| Protocols | Genisys, Modbus TCP/RTU, ASP, MQTT |
| Construction | Aluminum housing (4.35" x 5.46" x 1.78"), -40°C to 85°C operating range |
| Electrical | 9–26Vdc input; up to 60mA current draw (110mA with display active) |
| I/O Capabilities | 16 outputs up to 3A each, 8 with load monitoring; 16 inputs (9–26Vdc), configurable OSSD signals, negative-type I/O, optical isolation |
| Safety | Fail-safe operation; surge protection up to 3.5kV on communication ports |
| Integration | Works seamlessly with Pathfinder and other rail automation systems |





ARS
ADVANCED RAIL SYSTEMS

Advanced Rail Systems is the leading U.S.-owned and operated company dedicated exclusively to rail yard automation, offering total package solutions that redefine industry standards. Founded by experts with decades of hands-on experience — from maintaining rail lines to designing advanced automation systems — the company combines deep industry knowledge with cutting-edge innovation. Advanced Rail Systems' comprehensive approach integrates powerful, reliable switch machines and advanced automation technologies to streamline yard operations, enhance safety, and maximize efficiency. Committed to excellence in both product and service, Advanced Rail Systems delivers solutions that drive rail yards forward, setting a new benchmark for performance and support in the railway industry.

Contact our
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