Advanced Event Recorder with Advanced Solutions

The Progress Rail PowerView Locomotive Event Recorder is built on our legacy of railroad event recorders and innovative data acquisition products and solutions.

PowerView directly integrates into the EMD FIRE display as well as other locomotive systems, and contains an integrated, internal, field replaceable crash-hardened memory module.

The recorder has a full industrial switch and multiple Ethernet ports for flexible network connectivity, as well as digital inputs with the capability to add additional inputs for various requirements.

The included SATA drive bay with locking mechanism, when combined with industry-standard network IP cameras and a solid state drive, optionally expands PowerView to include full LDVR functionality.

Network flexibility enables multiple cameras as well as multiple camera types to be used, all in a single MCU 5unit, saving critical space for other locomotive electronics.

It offers industry leading processing capability and secure, tamper-proof storage capacity, all in a compact design that meets industry shock and vibration specifications.

The recorder also focuses on ease of use. Integrated GPS for auto time synchronization, as well as a WebGUI interface allows easy access for configuration, system functions, and data access.

The Event Recorder comes with Progress Rail’s next generation PowerView Event Playback software for downloading and analyzing secure Event Recorder data.

Progress Rail
A Caterpillar Company

800-476-8769
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**Ethernet**
- 4x 10/100 Fast Ethernet ports, M12 connectors, A-coded 8-pin
- 1x GbE Ethernet port, M12 connector, X-coded 8-pin
- Full TCP/IP

**Serial**
- 2x RS-422/485 Full / Half Duplex
- Synchronous (up to 19200 baud)/Asynchronous (up to 57600 baud)

**Digital Inputs**
- 4x 30-80 VDC Optically Isolated
- States: ON, OFF, Toggle (user defined)
- Configurable, Expandable via RS-485 port and additional input modules

**Audio**
- Dual Balanced-line audio input

**USB**
- USB download port with cover

**Clock**
- Internal real-time clock w/battery back-up

**GPS**
- GPS receiver with RP-TNC antenna connector

**User Interface**
- WebGUI via browser (IE, Firefox)

**Diagnostic and Health**
- Status Indicator LEDs on front panel
- Detailed diagnostics via WebGUI

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**Progress Rail Event Playback Software**

**System Requirements**
- Windows 7 32/64 bit
- Windows 8 32/64 bit (including touch)
- Intel Core i3, 4 GB Ram

**Data Storage**
- Internal Crash Hardened Memory Module
- Meets 49 CFR Part 229
- Multiple capacities available
- SATA Drive Bay (SSD optional)
- Accepts industry-standard 2.5 inch Solid State Drive (SSD)
- Key Lock mechanism – auto shut down when unlocked

**Options**
- LDVR Capability
- IP Network Camera(s)
- Multiple Quantity and types
- Multiple Frame Rate
- Multiple Resolutions
- Supports multi-streaming
- *Solid-state drive (SSD) required

**Compression**
- Supports H264, MJPEG, and other industry codecs

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**Specifications**

- **Dimensions**
  - LSI 5 MCU Rack Mount
  - Width: 6.19 inches
  - Length: 11.5 inches
  - Height: 9.25 inches
  - Weight: 24 lbs

- **Relative Humidity**: 0% to 95% non-condensing

- **Operating Temperature**: -40 C to +70 C

- **Storage Temperature**: -50 C to +85 C

- **Power**
  - Operating Voltage 40-90 VDC
  - Voltage Range 20-135 VDC
  - Current Draw 15 Watts Max
  - Reverse polarity protection
  - Overvoltage protection

Meets the following specifications:
- FRA 49 CFR Part 229, AAR S-9101B
- AAR S-9401 (5702), IEEE 1482.1 compliant

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