

# Crash-Hardened Memory Module



## RVS-ECHMM

### Crash-Hardened Memory Module (CHMM) with Multiple Storage Options



The **Railhead Crash-Hardened Memory Module (CHMM)** or Audio and Image Recording System Memory Module, is a passenger and freight rail-ready platform that meets both FRA and IEEE industry standards for Event Recorder crash-worthy memory (ERMM). The Railhead CHMM is designed to withstand even the most severe impacts and temperature extremes. Available with different levels of storage capacity and mounting options to fit any cab car or locomotive. Set up is easy with a single cable that plugs into a front-panel port on the Railhead LDVR4K recorder. Our advanced technology manages data anomalies and improves data consistency to reduce write operations and optimize SSD speed and lifespan.

#### Features and Capabilities

- Automatically configures upon connection to LDVR4K
- Mounts in standard LSI rack (MCU5 size) or floor/wall mount
- Available with 128GB, 256GB, 512GB, or 1TB memory capacity
- Power protection maintains data integrity during power on/off and outages
- Utilizes standard license-free Railhead System Management (RSM) software for data retrieval
- Capable of storing different types of data such as PTC, Event Recorder, LDVR audio/video and discrete inputs
- Compatible with Operating Systems having USB2.0/3.0 mass-storage driver such as Windows and Linux 2.4+

#### Specifications

Storage	128GB, 256GB, 512GB or 1TB
Interface	eSATA / USB2.0 / USB3.0
Operational Temperature	-40C to +85C
Dimensions	6" x 6" x 5" (152mm x 152mm x 125mm)
Weight	12 lbs. (5.4kg)
Wear Leveling	An algorithm distributes and writes evenly across all pages
Cable Connector	M-12 (12-pin)
Cable	USB-IF High-Speed certified
Cable Length	Standard 1 meter
Vdd	4.7V - 5.5 VDC
Power	2.2W (max.)
MTBF	> 3,000,000 hours
Compliance	FRA 49 CFR Part 229 IEEE 1282.1-2013



Railhead Corp.  
224 Shore Court, Burr Ridge, IL 60527  
800-235-1782 708-844-5500  
[www.railheadcorp.com](http://www.railheadcorp.com)