



GATEKEEPER'S VIDEO PROTECTION SOLUTION:CHMM

Gatekeeper presents the Crash Hardened Memory Module (CHMM), specifically designed for the rail industry to meet FRA and IEEE regulations.

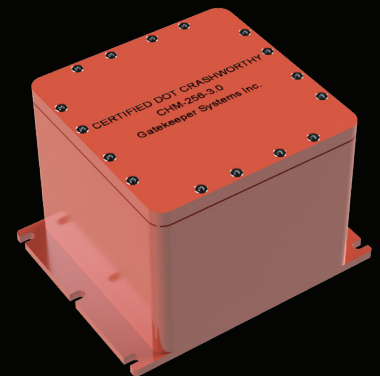
When combined with Gatekeeper's line of Rail Rated DVRs / NVRs, cameras, and wireless connectivity video recording solutions, a CHMM provides compliance with FRA Rule (49 CFR § 229.136) mandating the installation of inward and outward facing image recording devices on all passenger train lead locomotives.

GATEKEEPER

CRASH HARDENED MEMORY MODULE (CHMM)

IEEE AND FRA COMPLIANT

**INTEGRATED WITH
GATEKEEPER RAIL RATED
VIDEO RECORDERS**



KEY FEATURES

- IEEE and FRA compliant Crash Hardened Memory Module
 - IEEE 1482.1 1999 and 2013
 - FRA 49 CFR Part 229
- Effortless install and integration
- Designed to retain video post accident
- Space efficient and compact
- Available in 256 GB or 512 GB configurations
- Integrated with Gatekeeper's line of Rail Rated Mobile Data Collectors
- Optimized for video protection

MEETS FRA SYSTEM & DEVICE LEVEL REGULATIONS

GATEKEEPER

Gatekeeper Systems Inc.
301-31127 Wheel Avenue
Abbotsford, BC V2T 6H1
Canada

Gatekeeper Systems USA Inc.
7-200 Rittenhouse Circle East
Bristol, PA 19007
United States

SPECIFICATIONS

STORAGE SIZE	256GB, 512GB
INTERFACE	USB
CONNECTOR	M12
TERRA BYTE WRITTEN (TBW)	256 GB -> 768 512 GB -> 1536 Endurance option: 7k (at max 256GB)
RELIABILITY [MTBF]	1,000,000 hrs
DEVICE COMPLIANCE	EN50155 IEEE 1482.1 2013 FRA 49 CFR Part 229
OPERATION TEMPERATURE	-40 degree C to +70 degree C
STORAGE TEMPERATURE	-40 degree C to +85 degree C

LOAD CAPACITY HOUSING

STATIC PRESSURE	110 kN (25000 lbf) for 5 min
PENETRATION	23 kg (50 lb) weight with a protruding 6.4 mm (0.25 in) diameter steel pin dropped from a height of 1.5 m (5.0 ft).
SHOCK	55 g Peak (100 ms duration)
THERMAL LOAD CAPACITY	IEEE: 2013 & FRA: 750 °C (1382 °F) for 60 min. followed by 260 °C (500° F) for 10 hrs.
TIGHTNESS	Grade 1 & 2 Diesel Fuel (ASTM D975) Water Salt Water Lubricating Oil (each liquid for 48 h, immersion in fire extinguishing agent for 10 min.)
HYDROSTATIC PRESSURE	Fresh & Salt Water 50 feet (15 m) depth for 48 hours