

Crash Hardened Memory Module

CHMM7000

The Crash Hardened Memory Module is a solid state memory (FLASH) enclosed in a rugged, hardened chassis compliant to the Railways Standards. The solid state memory has a USB communication interface (Ethernet interface under development) and it can be used as a storage disk by the CPU to store and retrieve data such as: equipment diagnostic data, operating (driving) data, dynamic data (e.g. speed, brake, battery voltage) as well identification and configuration data. The data are stored in files on a standard journaling file system. In case of accident or when necessary, the data stored can be easily downloaded using a PC. The maximum memory size is 32 GB. The built in memory controller is in charge of: wear-levelling bad block management, error correction coding, data integrity under power-cycling and communication.



MAIN STANDARDS COMPLIANCE

- Approvals/Compliance: EN 50155, IEC 60571, IEEE Std 1482.1-1999, IEEE Std 1482.1-2013, IEC 62625-1 and FRA 49 CFR Part 229
- Internetworking Standards: IEEE 802.3u (Fast Ethernet 802.3ab), IEEE 802.3at (Power over Ethernet)

ENVIRONMENTAL

- Power supply: USB or Power over Ethernet
- Operating temperature according to EN 50155, class TX
- Overall dimensions (with brackets and cover): 175 x 128 x 232,5 mm
- Weight: 9kg

SYSTEM FEATURES

- Storage capacity up to 32 GB
- Fire, impact shock, penetration, static crush, fluid immersion and hydrostatic pressure protection levels according to International Standards

STANDARD CONNECTIVITY

- USB 2.0 or Ethernet 100 Base-T (in option)