

Crashworthy Fireproof Train Data Memory Module

This crashworthy, fireproof data memory module is designed for trains. It is built to withstand crashes and fires, ensuring critical data is protected.



Overview

Robust Data Protection

This crashworthy memory module is engineered to safeguard critical data for train recording systems under the most extreme conditions, including fire, explosion, and deep-water immersion. It exceeds international safety standards, including US Federal Regulations for crashworthy event recorders and airborne recording system requirements. Its versatile design makes it suitable not only for rail applications but also for heavy-duty trucks and oil transport vehicles requiring high-security data storage.

Compliance & Standards

Certifications

FRA 49 CFR Part 229, IEEE 1482.1-2013, IEC 62625.1-2013, ED-112, ED-155

Technical Specifications

Interface Connectivity

- USB 2.0
- SATA 2.0
- eMMC adaptor cable

Power Input

5 V

Voltage

1.5 W

Max Power (SATA)

0.5 W

Max Power (eMMC/USB)

Writing Circulation

Type	Cycles
SLC	100000
MLC	3000

Environmental Resistance

Fire Resistance Rating	1100°C for 60 minutes, followed by 260°C for 600 minutes
Water Immersion	100m depth for 240 hours
Static Crush Resistance	168 kN
Operating Temperature	-40 to 75°C
Storage Temperature	-40 to 85°C

Physical Characteristics

Dimensions	170 x 130 x 130mm
Net Weight	6 kg