EVENT-DATA RECORDING CRASH HARDENED MEMORY MODULE

SIL4 SYSTEMS
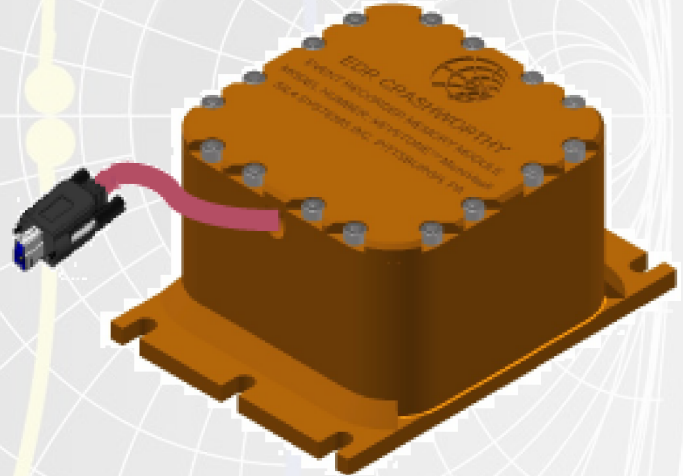Embedded Safety & High Reliability Computing Platforms

At **SIL4 Systems** our Mission and Relentless Commitment is to **Safety** and **High Reliability**

- **Code of Federal Regulations compliant EVENT DATA RECORDERS CRASH HARDENED MEMORY MODULES designed for easy integration into new and existing systems.**

- **LDVR, ATP, ATS, PTS event recording.**

- **Use with our IEEE/FRA compliant event recorder platform or integrate with any third-party or OEM system.**

SPECIFICATIONS FOR HD-EDRCHMM

Density:	…, 128, 256, 512, 1TB [formatted capacity slightly less]
Interface:	USB type B connection; USB2.0 / USB3.0 standards
Standard Compliance:	49 CFR Part 563
Operational Temperature:	-40°C to +85°C
File System:	FAT32, NTFS (flexible - most custom file system compatibility available)
Operating Systems:	Any OS with compatible w/USB2.0/3.0 mass-storage driver
Wear Leveling:	All blocks can be almost evenly distributed with data. The CHMM has a powerful ECC engine; block management and power failure management mechanisms
Error Management:	The SIL4 HD-CHM implements a hardware low-density parity-check ECC scheme, based on the BCH algorithm. It can detect and correct up to 40 bits error in 1K bytes.
Max. Performance (Seq. W/R):	1.2Gbps (Benchmark via CrystalDiskMark)
Vdd:	4.7V - 5.5 VDC
Power Requirements:	2.2W (max)
High Reliability (MTBF):	> 3,000,000 hours (Telcordia SR-332 GB; 25oC)
Dimensions:	6" x 6" x 4.75" [152mm x 152mm x 120mm]
Weight:	~16 lbs