The AS-VME/CPCI-800 is a Fast Flash Disk rugged Recording board that plugs into a 6U VME / CPCI slot and interfaces via a vast range of popular I/O interfaces with more than 8000 GB storage capacity.

Asine Recording Board is designed to meet harsh environmental conditions as well as to support high speed transfer rates and large Flash Disk Capacity.

The AS-VME/CPCI-800 supports OEM application’s specific features such as special P2 / P0 signal routing, conformal coating, conduction cooling, on-board signal conditioning, and more. The AS-VME/CPCI-800 carries a 1 year warranty.

Applications

- High-Speed Flight Data Recording
- Inteligence events logging
- FPDP and more data capturing
- Video / JPEG2000 Capture Recorder
- Military Tactical Field Recorder
- Data Mining
- Video Surveillance
- Cockpit Voice & Sata Recording
- Mission-Critical Applications
- MIL 1553 / Arinc Monitoring
Preliminary Features

- 32GB to 1 Terra Bytes of non-volatile Flash memory in a single slot 6U VME / CPCI
- High speed accumulated recording rates: up to 200 MB/sec (data type dependent)
- Optional interfaces: LVDS I/O, Rocket I/O, 16/32bit clocked, S-FPDP, 1553 / MAXBUS,
  Arinc 429, SATA2, Fast Ethernet, Camera Link, Video / RS170 / MPEG2 / MPEG4, Audio, CAN Bus and more - consult factory
- Fast data erase
- Reliability - MTBF - Targeted to support 200,000 hours
  - Embedded EDC/ECC, based on 48-bit Reed Solomon Algorithm, Bad Block
  - Mapping out algorithms, Dynamic wear leveling
  - Built-in power-up self test
  - Manual and automatic self-diagnostics
- 30W average power dissipation (depending on capacity and data rate)
- 2,000,000 Write/Erase cycles; Read unlimited
- Operating temperature – Commercial 0°C to +70°C, Enhanced -40°C to +71°C, and optional beyond
- Storage temperature -55°C to +95°C
- Humidity 5% to 95% relative, non-condensing
- Altitude (operating & non-operating) 0 to 80,000 feet
- Command set S/W driven interface with management port
- Long term product lifecycle support
- Conduction cooled for rugged applications
- Conformal coating – optional
- Board is MIL-STD 810F Compliant
- Shock - 2G, 11msec, saw-tooth MIL-STD-810E - Method 516.4 3 shocks at each direction of 3 orthogonal axes
- Vibration – -6db slop from 0.1 G2/Hz to 0.01 G2/Hz (MIL-STD-810F, Method 514.5 Random, 15Hz to 2000 Hz, 3 vibrations axes)
- Warranty - 1 Year

The AS-VME/CPCI-800 takes advantage of Asine’s top reliable high performance mass storage Solid-State Disk with no moving parts, ideal to meet the reliability requirements for defense, aerospace, video and audio servers, as well as broadcasting systems. The FFD is designed to withstand extreme shocks, vibrations and harsh environmental conditions while operating without compromising on data integrity.