The ASVME610/620/S is Asine’s Photon series Fast Flash Disk SCSI board. It plugs into a 6U VME slot and interfaces via LVD or Single Ended SCSI bus utilizing SCSI1/2 or SCSI3 protocols as well as SCSI320. Asine SCSI storage systems deliver performance and proven reliability for data and mission critical systems. Added benefits of flexibility are built into Asine’s SCSI storage systems, including easy field firmware upgrades and expandable storage capacity as flash disk capacities increase. The ASVME610/620/S and the ASVME610P supports OEM application specific features such as special P2 signal routing, conformal coating (option F), conduction cooling (option C), on-board termination, TERM Power, and more.

Applications

- Military & Airborne Systems
- Rugged Storage, Military Tactical Recorder
- High-Speed Flight Data Recording
- Cockpit Voice & Data Recording, MIL 1553 / Arinc Monitoring
- Video Surveillance, Video/JPEG2000 Capture
- Telecommunications
- Factory Automation
- Automotive
- Testing Instrumentation
- Mission-Critical Applications
- JBOD, NAS, SAN, RAID
- Digital Recorders
- Data Acquisition Systems
Features

- 16 GB to 1 TB of non-volatile Flash memory in a single slot 6U VMEbus (larger capacities are available)
- Less than 20 µsec access time
- High data transfer rate: Up to 320MB/Burst R/W, 40MB/Sec Sustained Read/Write (different models to support these speeds). SCSI 320MB/Sec bus speed on the 620S.
- Fast erase – up to 10 sec entire media (typical)
- Reliability - MTBF - Targeted to support 1,000,000 hours
  - Embedded EDC/ECC, based on 48-bit Reed Solomon Algorithm
  - Built-in power-up self test
  - Manual and automatic self-diagnostics
  - TrueFFS® Bad Block Mapping out algorithms
  - Dynamic wear leveling
- 5.5 W - 8 W max power dissipation (depending on capacity)
- 5,000,000 Write/Erase cycles; Read unlimited
- Operating temperature – Commercial 0°C to +70°C and Industrial -40°C to +85°C (no start at -40°C)
- Storage temperature -55°C to +95°C
- Humidity 5% to 95% relative, non-condensing
- Altitude (operating & non-operating) 0 to 80,000 feet
- ANSI SCSI-2, SCSI-3, and SCSI320 Standard Protocols
- No special drivers - uses existing Windows, VxWorks®, and SCSI drivers
- Long term product lifecycle support
- Conduction cooled ready for harsh and rugged applications
- Conformal coating – optional
- FFD unit MIL-STD-810F Compliant
  - Shock - Half Sine, 50G, 11ms; Half Sine, 1500G, 0.5ms
  - Vibration - 16.3G RMS (Random, 20Hz to 2000 Hz, 3 vibrations axes)
- Warranty - 1 Year

Ordering Information:  P/N Structure: ASVME-[bus]-[cap]-[t][c][f]

### ASVME6X0
1. SCS1/SCS12 Narrow
   - Capacity: 0160 16 GB
   - Capacity: 0320 32 GB
2. SCS12/SCS13 Ultra Wide
   - Capacity: 0640 64 GB
   - Capacity: 1280 128 GB
   - Capacity: 2560 256 GB
   - Capacity: 5000 500 GB
   - Capacity: 0001 1 TB

### Additional Options:
- ASVME610P - carries alternative VME P2 pinout.
- Made in the USA for F M F
- Customization available

The ASVME610/620/S based on advantaged Asine’s Photon series 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 ASVME is designed to withstand extreme shocks, vibrations and harsh environmental conditions, while operating without compromising on data integrity.

Ordering Example:
ASVME620-0080-ZF is an 8GB SCS12/3 Ultra Wide, operating at −40°C to 85°C with conformal coating.