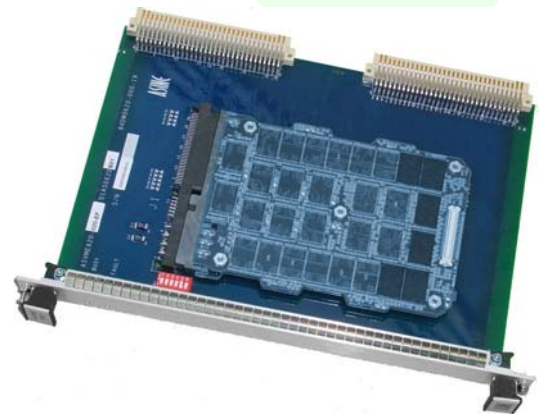


VME Flash Disk Module

ASVME-610/620/S

Product Overview

The ASVME610/620/S is Asine *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. The ASVME610/620/S carries 1 year warranty.



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

- 4GB to 256 Gbytes 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/Sec 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, Industrial -40°C to +85°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

The ASVME610/620/S takes advantage of Asine *Photon series* top reliable high performance mass storage Solid-State Disk with no moving parts, ideal to meet the reliability requirements of the military and 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.



ASVME6X0	cap	t	c	f
1 SCSI1/SCSI2 Narrow	0040	4GB	C 0°C to 70°C	C Conduction Cooling
2 SCSI2/SCSI3 Ultra Wide	0080	8 GB	Z -40°C to 85°C	V Convection Cooling
ASVME620S SCSI 320 Wide	0160	16 GB		
	0320	32 GB		
<u>Additional Options:</u>	0640	64 GB		
	1280	128 GB		
• ASVME610P - carries alternative VME P2 pinout.	1760	176 GB		
• Made in the USA for F M F	2560	256 GB		
• Customization available				

Ordering Example:

ASVME620-0080-ZF is an 8GB SCSI12/3 Ultra Wide, operating at -40°C to 85°C with conformal coating.