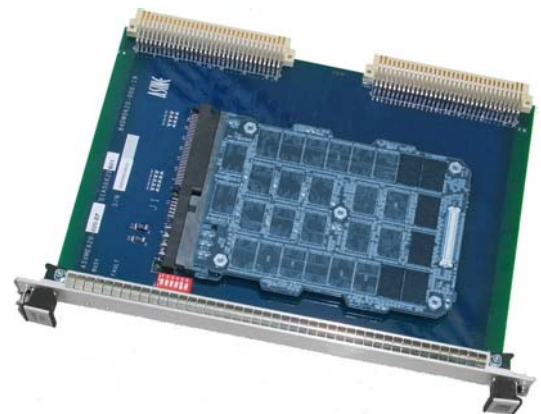


VME Flash Disk Module

ASVME-610/620/S

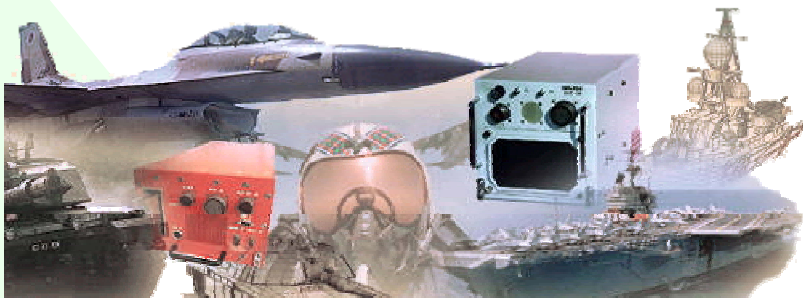
Product Overview

The ASVME610/620/S is a 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

- Avionics and airborne systems
- Navigation systems
- Telecommunications switches
- Data acquisition systems
- CNC manufacturing equipment
- Shipboard fire control systems
- Laboratory instrumentation
- Mission-critical applications



Features

- 2GB to 256 Gbytes of non-volatile Flash memory in a single slot 6U VMEbus (larger capacities are available)
- Less than 20 μ sec 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, Enhanced -25°C to +75°C and Extended -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

SanDisk

The ASVME610/620/S takes advantage of **SanDisk FFD** (Fast Flash Disk) 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 FFD is designed to withstand extreme shocks, vibrations and harsh environmental conditions while operating without compromising on



ASVME6X0	cap	t	c	f
1 SCSI1/SCSI2 Narrow	0020	2 GB	C 0°C to 70°C	C Conduction Cooling
2 SCSI2/SCSI3 Ultra Wide	0040	4GB	E -25°C to 75°C	F Conformal Coating
ASVME620S SCSI 320 Wide	0080	8 GB	Z -40°C to 85°C	
<u>Additional Options:</u>	0160	16 GB		
	0320	32 GB		
	0640	64 GB		
• ASVME610P - carries alternative VME P2 pinout.	1280	128 GB		
• Made in the USA for F M F	1760	176 GB		
• Customization available	2560	256 GB		

Ordering Example:

ASVME620-0080-EF is an 8GB SCSI2/3 Ultra Wide, operating at -25°C to 75°C with conformal coating.

The information contained in this document is subject to change without notice