

Conduction Cooled VME Solid State Disk



Phoenix International's VC1-250-SSD Conduction Cooled Serial ATA (SATA) based Solid State Disk VME blade delivers high capacity, high performance data storage for military, aerospace and industrial applications requiring rugged, extreme environmental and secure mass data storage.

This 6U, single-slot module houses one or two each 2.5" SAS or SATA SSDs of up to 512GB per device (1024GB total). The high speed module will sustain R/W data rates of 250MB/sec with an access time of 0.5 msec. The VC1-250-SSD has an operating temperature range from -40 to 85 degrees C and functions at an altitude greater than 80,000 feet. The VC1-250-SSD also complies with current defense department security standards providing multiple levels of secure erase techniques.

The VC1-250-SSD's outstanding performance and versatility is enabled by Phoenix International's state-of-the-art technology which provides very high transfer and IO rates, enhanced endurance and maximum data integrity.

Features

Operational temperature range from -40° to +85° C

Random write operations: 60000 IOPS

Burst data transfer rate to 600MB/sec

Sustained data transfer to 500+MB/sec

Total capacity to 1024GB

Individual point to point device connectivity

Low power consumption
2,000,000 MTBF

Integrated SLC NAND Flash

Meets military and IRIG 106-07 declassification standards

Advanced flash management for enhanced reliability and durability

80,000 feet operational altitude

60g, 11 ms operational shock

16g rms, 10-2000Hz random vibration

Made in USA



Rugged VME Solid State Disk Module

TECHNICAL SPECIFICATIONS

Physical

Size 160mm x 234mm (Double Eurocard)
4HP (1 Standard Slot)

Interface

P2 connector (P2 Rear Adapter Accessory Available)
Serial Attached SCSI (SAS)
Serial ATA (SATA)

Capacity

Unformatted to 1024GB (two devices)

Performance

Burst data transfer rate 600MB/sec
Sustained data transfer rate 500+MB/sec

Power (per device)

Input 5VDC +/- 5%
Idle 1.65W
Operational (max) 3.00W

Reliability

MTBF 2,000,000 hrs (Telcordia)
BER (bit error rate) $10e^{-16}$

Environmental (operating)

Temperature 0° C to 70° C Commercial
-40° C to 85° C Extended
Shock 60g half-sine, 11 ms
Vibration 16g rms, 10-2000Hz random
Altitude 80,000 feet
Relative Humidity 5% to 95%, non-condensing
Conformal Coating Optional

Phoenix International

Phoenix International is an AS 9100 Rev C/ISO 9001:2008 certified, Service Disabled Veteran Owned Small Business (SDVOSB) manufacturer of Rugged COTS data storage product. Phoenix developed state of the art enabling technology provides users with mass storage products that ensure the highest performance storage and data network systems. These systems range in size and application from multi-terabyte Fibre Channel RAID, NAS and Storage Area Network (SAN) configurations to conduction cooled plug-in VME/VPX solid state (flash) storage modules.



VS1-250-SSD Air-Cooled Version



Phoenix International is AS 9100 Rev C/ISO 9001:2008
Certified

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