RED ROCK® TECHNOLOGIES
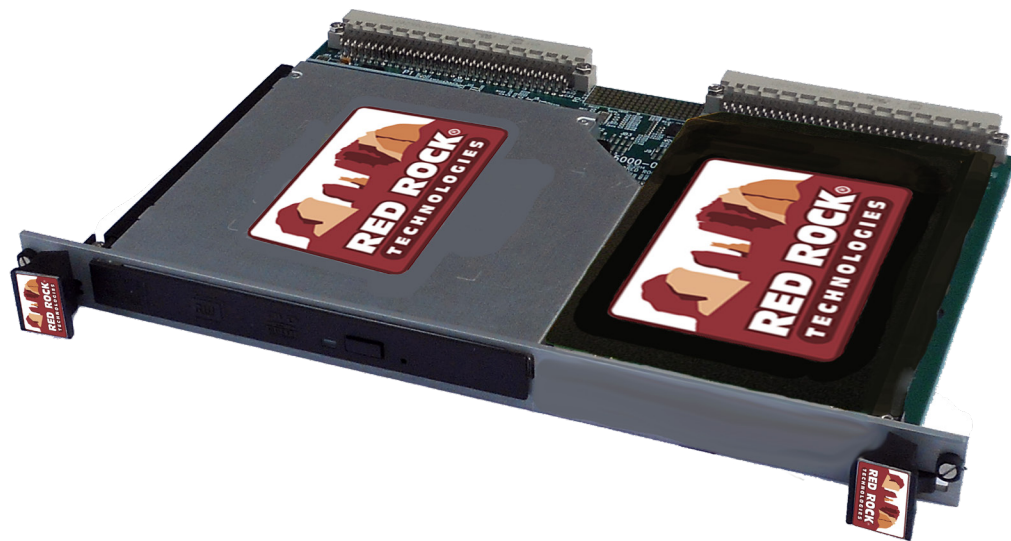
6U VME SATA DVD and SATA Drive Module

THE 6U VME SATA DVD AND SATA DRIVE MODULE adds a HDD or SSD and a DVD to a VME system using one VME slot. The drive and DVD each have separate SATA interfaces.

The drive module can use any COTS 2.5" SATA Hard Disk Drive (HDD) or Solid State Drive (SSD) providing capacities up to 16 TB and sustained transfer rates up to 200 MB/S. Options for discrete, controlled secure erase.

The DVD is a standard slim DVD tray loading version. Modes of operation: DVD-ROM, DVD-R/W, CD-ROM, CD-R/W.

- Capacities up to 16 TB
- 200 MB/s transfer rates
- Uses off-the-shelf DVD/CD utility software
- SATA2 interface via VME P0 and/or P2
- Boot and/or storage disk
- COTS SATA HDDs/ SSDs
- Military erase options
- FIPS 140-2, FIPS 197, TCG Opal options
- P2 SATA adapter accessory available
- Compatible with all CPUs with a SATA controller
- ROHS compliant

Parhelia B.V.
www.parheliabv.com
+31(0)10 741 00 28

PARHELIA

206 W Julie Drive, Ste. 2
Tempe, AZ 85283   •   (480)-483-3777   •   www.redrocktech.com   •   contactus@redrocktech.com

Drive Module

RRT-6UVME-SATA-DVD-F-P2- | MLC | - | 480GB | - | UR | - | FE

Requirements

Disk Type
HDD	Hard Disk Drive
SLC	Single Level Cell NAND FLASH SSD
MLC	Multi Level Cell NAND FLASH SSD
TLC	3D NAND FLASH SSD

Capacity
1TB - 5TB	For HDD
7GB - 240GB	For SLC
60GB - 16TB	For MLC
120GB - 8TB	For TLC

Options May be left blank

Conformal Coat
UR	Polyurethane
AR	Acrylic

Erase Types
FE	Fast Erase
SE1	NSA/CSS Manual 9-12 Erase
SE2	RCC-TG IRIG 106-07 Chapter 10 Erase
FIPS 140-2	FIPS140-2 Compliant
FIPS 197	FIPS197 Compliant
Opal	TCG Opal Compliant

ORDER EXAMPLES

RRT-6UVME-SATA-DVD-F-P2-MLC-480GB-UR-SE1
RRT-6UVME-SATA-DVD-F-P0-SLC-240GB
RRT-6UVME-SATA-DVD-F-P2-HDD-1TB-FIPS140-2

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PERFORMANCE				
VERSION	HDD	SSD - TLC	SSD - SLC	SSD - MLC
CAPACITIES[1]	Up to 5TB	Up to 8TB	Up to 240GB	Up to 16TB
INTERFACE[2]	SATA2, or SATA1			
THROUGHPUT - SUSTAINED	110MB/S	200MB/S		
SECTOR SIZE	512 bytes			
RELIABILITY				
MTBF - DRIVE	500,000 hours	1 million hours	3 million hours	1 million hours
MTBF - DVD DRIVE	60,000 hours			
MTBF - VME BOARD	3 million hours			
CARRIER/DRIVE MODULE MATING CYCLES	100,000 mating cycles			
POWER				
VOLTAGE	+5V +/- 5%			
WATTS (IDLE)	1W			
WATTS (ACTIVE)	5W			
ENVIRONMENTAL				
OPERATING TEMP.	5°C to 45°C			
STORAGE TEMP.	-20°C to 65°C			
ALTITUDE	10,000 ft. (3,000 meters)			
RELATIVE HUMIDITY	8% to 80%			
SHOCK (OPERATING)	5G, 11mS; half sine			
SHOCK (NON-OPERATING)	20G, 11mS; half sine			
VIBRATION (OPERATING)	0.3G horizontal mounted, 0.2G vertically mounted, 5Hz to 500Hz, sine sweep rate of 1.0 oct/min			
VIBRATION (NON-OPERATING)	2G (zero to peak), 5Hz to 500Hz to 10Hz and sweep rate of 1.0 oct/min			
PHYSICAL				
FORM FACTOR	6U VME			
WEIGHT	24 oz. max (681g)			
PITCH	1.0"			
NOTES				
(1) Smaller capacities available, larger capacities available as new COTS 2.5" drives released. (2) Interface connected via P0 or P2. (3) Environmental specifications based on DVD drive limitations.				