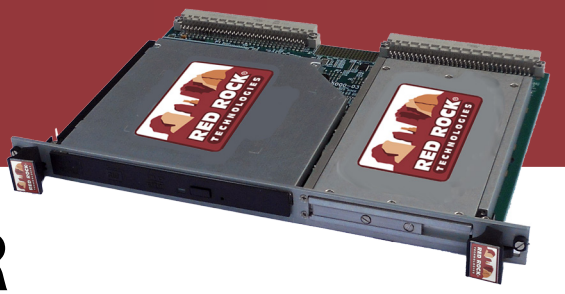
6U VME SATA DVD with Removable Drive Module



RRT-6U VME-SATA- DVD-R

The 6U VME SCSI drive module provides support for both a carrier with one removable drive module and a DVD drive.

The carrier and removable drive module section consists of 2 components; the carrier on the 6U VME board and the removable drive module. The connectors between the drive module and carrier are rated for 100,000 mating cycles to support frequent insertions/removals.

The drive module can use any COTS 2.5" SATA Hard Disk Drive (HDD) or Solid State Drive (SSD) providing capacities up to 8TB and sustained transfer rates up to 200 MB/S.

The DVD is a standard slim type DVD in either slot or tray loading version. Modes of operation; DVD-ROM, DVD-R/W, CDROM, CD-R/W

FEATURES INCLUDE

- 6U VME SATA interfaces factory configured for P0 or P2
- Fast, efficient field replacement
- DVD compatible with off the shelf DVD/CD utility software
- Rugged removable module design rated for 100,000 mating cycles
- Drive module uses COTS 2.5" SATA drives for a range of options
- Options for discrete controlled secure erase, purge and drive destroy
- Supports High performance SATA2 transfer rates, backwards compatible with SATA 1
- Current limited
- Power supplied from VME backplane
- P2 adapters available

206 West Julie Drive - Suite 2, Tempe, AZ 85283 | United States of America
Tel: 480-483-3777 | Toll Free: 1-800-808-7837
www.redrocktech.com | info@redrocktech.com

Security Options

ERASE/DESTROY OPTIONS INVOKED BY COMMAND OR BY DISCRETE INPUT

Fast Erase sets all locations to set value.

NSA/CSS Manual 9-12 Erase erases all locations, including bad blocks, then sets all locations to 0x55, and then internal verification is performed reading 1% of capacity confirming data pattern.

RCC-TG IRIG 106-07 Chapter 10 Erase erases all locations, including bad blocks, then sets all locations to 0x55, then sets all locations to 0xAA, and finally erased.

Drive Destroy performs erase of all NAND flash including internal SSD firmware, file system and tables, which makes the drive unusable and unreadable.

Ordering Information

RRT-6UVME-SATA-DVD-R - P2 - UR

SATA Interface
P0 - VME P0 Connector
P2 - VME P2 Connector

Conformal Coating
UR - Polyurethane
AR - Acrylic

Example: RRT-6UVME-SATA-DVD-R-P2-UR

RRT-DM-SATA - MLC – 480GB – FE - UR

Disk Type
SLC - Single Level SSD
MLC - Multi Level SSD
HDD- Hard Disk Drive

Capacity
Any capacity up to 2TB (in GB, 8GB, 15GB, 30GB, 60GB, 120GB, 240GB…)

Options May be left blank

Security Type
FE - Fast Erase
SE1 - NSA/CSS Manual 9-12 Erase
SE2 - RCC-TG IRIG 106-07 Chapter 10 Erase
DD - Drive Destroy

Conformal Coating
UR - Polyurethane
AR - Acrylic

Example: RRT-DM-SATA-MLC-480GB
Example: RRT-DM-SATA-SLC-120GB-FE-UR

The specifications shows several options but many more options are available based on customer requirements for cost, speed and capacity.

206 West Julie Drive - Suite 2, Tempe, AZ 85283 | United States of America
Tel: 480-483-3777 | Toll Free: 1-800-808-7837
www.redrocktech.com | info@redrocktech.com

6U VME SATA DVD w/ Rem Drive Module Specifications

Performance			
Version	HDD	SSD - SLC	SSD - MLC
Capacity-Maximum (1)	1.5TB	640GB	8TB
Interface (2)	SATA2, or SATA1		
Sustained Throughput Read Write	 110MB/S 110MB/S	 200MB/S 200 MB/S	 200MB/S 200MB/S
Sector Size	512 bytes		
Reliability			
MTBF-Drive	Hard drive: 500,000, SSD: 1-3 million hours		
MTBF – DVD Drive	60,000 hours		
MTBF – Drive Module	3 million hours		
MTBF – Carrier	3 million hours		
Carrier/Drive Module Mating Cycles	100,000		
Power			
Voltage	+5V +/- 5%		
Watts-idle	1		
Watts-active	5		
Environmental (3)			
Temperature Operating	5º to 45ºC		
Temperature Storage	-20º to 65ºC		
Relative Humidity	8% to 80%		
Altitude	10,000 feet 3,000 metres		
Shock – Operating	7GG horizontal mounted, 5G vertically mounted, 11mS; half sine		
Vibration – Operating	0.3 G horizontal mounted, 0.2 G vertically mounted, 5Hz to 500Hz and sweep rate of 1.0 oct/min		
Vibration – Non Operating	2G 5Hz to 500Hz and sweep rate of 1.0 oct/min		
Physical			
Form Factor	6U VME		
Weight	24oz MAX (681g)		
Pitch	1.0"		

(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.

206 West Julie Drive - Suite 2, Tempe, AZ 85283 | United States of America
Tel: 480-483-3777 | Toll Free: 1-800-808-7837
www.redrocktech.com | info@redrocktech.com