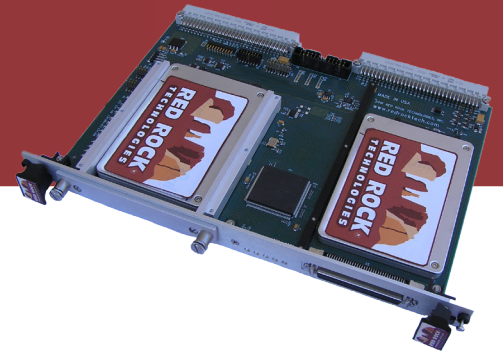


6U VME SCSI Carrier with Removable Drive Module

RRT-6U VME-SCSI-R



The 6U VME SCSI carrier with removable drive module provides storage using a COTS 2.5" SATA Hard Disk Drive (HDD) or Solid State Drive (SSD) with a range of capacity, speed, environmental and cost options. The 6U VME SCSI carrier provides a transparent interface from the SCSI bus to a COTS 2.5" SATA drive.

Capacities up to 8TB in a single 6U VME slot.

Ultra SCSI interface supports 8-bit narrow/16-bit wide, single-ended SE modes.

Options for discrete controlled secure erase.

FEATURES INCLUDE

- SCSI interface to front panel or VME P2 connector
- Provides boot disk and/or disk storage
- Removable drive is ruggedly secured
- Uses COTS 2.5" SATA drive for wide range of options
- Robust design for extreme temperature, shock and vibration environments
- Compatible with all CPUs with a SCSI controller
- Fast, efficient field upgrades with removable 2.5" drive
- No additional software required
- P2 adapter accessory available
- ROHS compliant
- Power supplied from VMEbus; no separate power supply required
- Front panel activity LEDs
- SCSI termination can be enabled within module
- SCSI ID selection 0 - 15

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. Then internal verification is performed reading 1% of capacity confirming data pattern.

RCC-TG-106-7 Chapter 10 Erase erases all locations, including bad blocks, then sets all locations to 0x55, then sets all locations to 0xAA, and finally erases.

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 - Carrier

RRT-6UVME-SCSI-R - P2 - UR - X

SCSI Interface
FP = Front Panel
P2 = VME P2 Connector

Options May be left blank

Conformal Coating
UR = polyurethane
AR = acrylic

Extended Temperature Range
X = -40°C to 85°C

Example: RRT-6UVME-SCSI-R-P2-UR-X

Example: RRT-6UVME-SCSI-R-FP

Ordering Information – Drive Module

RRT-6UVME-SCSI-DM - MLC - 480GB - FE - UR - X

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

Capacity
Any capacity up to 8TB

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

Conformal Coating
UR = polyurethane
AR = acrylic

Extended Temperature Range
X = -40°C to 85°C

Example: RRT-6UVME-SCSI-DM-MLC-480GB-UR-X

Example: RRT-6UVME-SCSI-DM-SLC-8GB-SE2

6U VME SCSI Drive Module Specifications

Performance				
Version	HDD	SSD - SLC	SSD - MLC	SSD - Secure Erase
Capacities (1)	Up to 1.5TB	Up to 480GB	Up to 8TB	Up to 480GB
NAND FLASH Type	N/A	SLC	MLC	SLC
Interface	Ultra SCSI interface compatible with any SCSI controller. Supports wide/narrow and single-ended (SE) modes.			
Sustained Throughput				
Read	38MB/s			
Write	38MB/s			
Sector Size	512 bytes			
Reliability				
MTBF - Drive	500,000 hours	3 million hours	1 million hours	1.2 million hours
MTBF - Drive Carrier (2)	3 million hours			
Power				
Voltage	+5V +/- 5%			
Watts-idle	1W	1.2W	1.2W	1W
Watts-active	2.5W	2.5W	2.5W	2W
Environmental				
Temperature Operating, VITA 47 Class	0° to 60°C, AC1	-40° to 85°C, AC3 for -X option 0° to 70°C, AC1 for Standard SSD		
Temperature Storage	-40° to 70°C	-40° to 85°C		
Relative Humidity	5% to 95%	5% to 95%		
Altitude	10,000 feet 3,000 metres	80,000 feet 24,000 metres		
Shock, VITA 47 Class	20g, OS1	40g, OS2		
Vibration, VITA 47 Class	0.04g ² /Hz, V2	0.1g ² /Hz, V3		
Physical				
Form Factor	6U VME			
Weight	14.1 oz (400g)			
Pitch	1.0"			
(1) Larger capacities available as new COTS 2.5" drives are released				
(2) Telcordia SR-322, Issue 3, operating temp (40° C), electrical stress (50%), environmental factor (1.0)				

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