

6U VME SCSI Drive Module



RRT-6U VME-SCSI

The 6U VME SCSI 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.

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
- 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
- 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

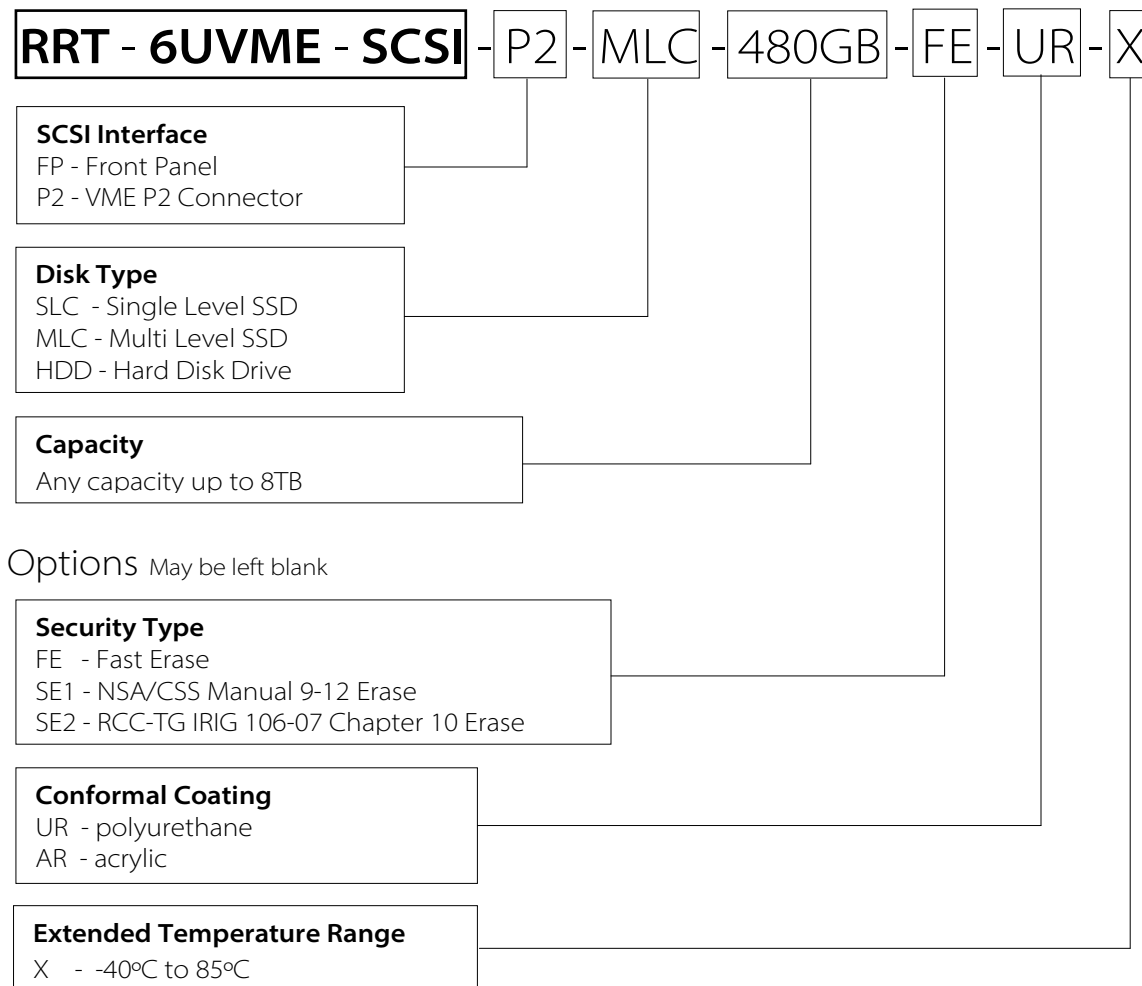
Fast Erase sets all locations to set value.

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 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



Example: RRT-6UVME-SCSI-P2-MLC-480GB-UR-X

Example: RRT-6UVME-SCSI-FP-HDD-500GB

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 Write	38MB/s 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	11.3oz (320g)			
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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