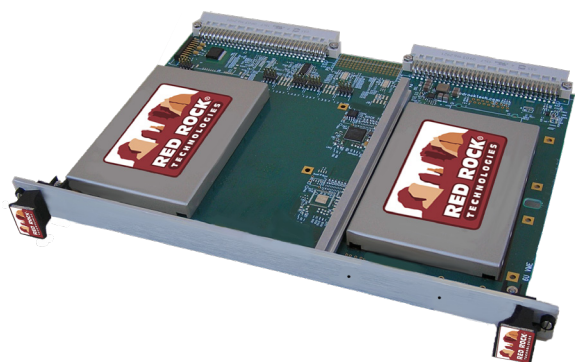




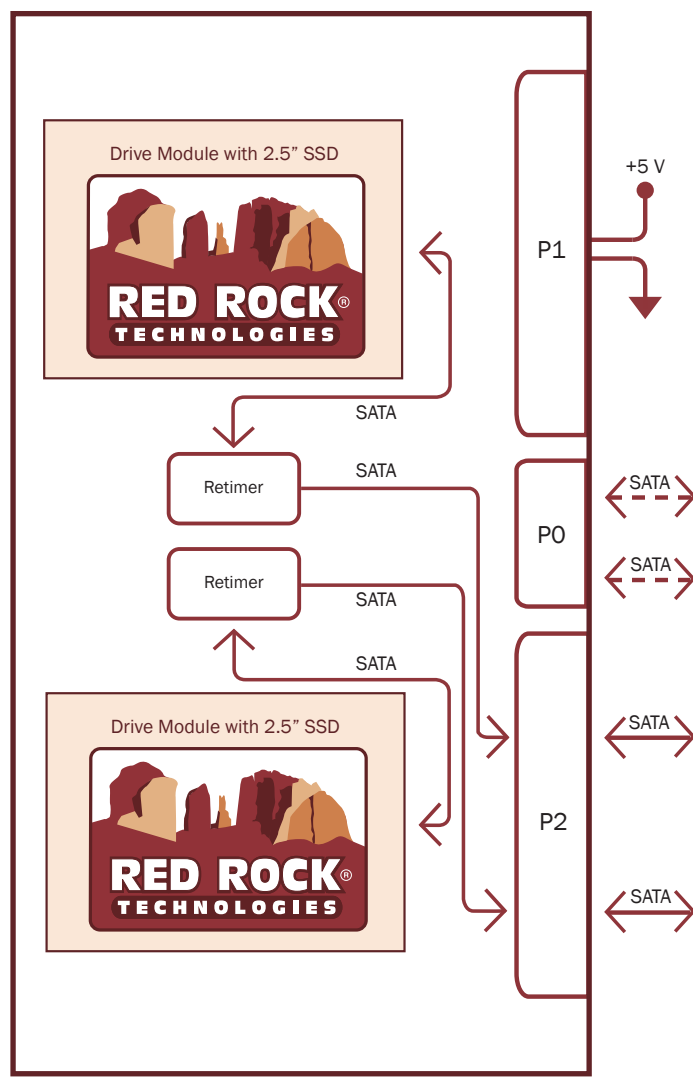
RRT-6UVME-SATA 6U VME SSD Module with SATA Interface

6U VME SSD MODULE WITH SATA INTERFACE 6U VME SSD Module with SATA Interface adds one or two HDDs or SSDs to a VME system using one VME slot.

The drive module can use any COTS 2.5" SATA Solid State Drive (SSD) providing capacities up to 40TB (20TBx2) and transfer rates of up to 200MB/S. Options for FIPS140-2, FIPS197, TCG Opal, and military erase. Each drive has a separate SATA interface.



6U VME SSD Module with SATA Interface



- Capacities up to 40TB (2x20TB)
- 200 MB/s transfer rates
- SATA interfaces via VME P0 or P2
- Removable SSD modules
- Boot and/or storage disk
- COTS 2.5" SATA SSDs
- Military erase options
- FIPS 140-2, FIPS 197, TCG Opal options
- P2 adapter with SATA interface available



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

Ordering Information

6U VME SSD Module with SATA Interface

RRT-6UVME-SATA- **P2** - **F2** - **MLC** - **20TB** - **UR** - **X** - **FE**

Requirements

SATA Interface

P0 VME P0 Connector
P2 VME P2 Connector

Drives

F1 1 fixed drive
F2 2 fixed drive

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 - 20TB For MLC
120GB - 8TB For TLC

Options May be left blank

Conformal Coat

UR Polyurethane
AR Acrylic

Extended Temperature Range

X -40°C to 85°C

Erase Types

FE Fast Erase
SE1 NSA/CSS Manual 9-12 Erase
SE2 RCC-TG IRIG 106-07 Chapter 10 Erase
FIPS197 FIPS197 Compliant
Opal TCG Opal Compliant

ORDER EXAMPLES

RRT-6UVME-SATA-P2-F2-MLC-480GB-UR-X-SE1
RRT-6UVME-SATA-P0-F2-SLC-240GB
RRT-6UVME-SATA-P0-F1-HDD-1TB-FIPS140-2



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Product Specifications

6U VME SSD MODULE WITH SATA INTERFACE

PERFORMANCE

NAND FLASH TYPE	HDD	SSD: TLC	SSD: MLC	SSD: MLC-X	SSD: SLC
CAPACITIES ¹	Up to 5TB	Up to 8TB	Up to 20TB		Up to 240GB
INTERFACE ²	SATA2 (SATA 300)				
THROUGHPUT - SUSTAINED	130 MB/S	400 MB/S			
SECTOR SIZE	512 bytes				

RELIABILITY

MTBF - DRIVE	500,000 hours	1 million hours	2 million hours	3 million hours
MTBF - DRIVE MODULE	3 million hours			
MTBF - CARRIER ³	3 million hours			
DATA RETENTION	Not applicable	1 year ⁴		10 years ⁵
ENDURANCE (100GB) TOTAL BYTES WRITTEN	Not applicable	70 TBW		350 TBW

POWER

VOLTAGE	+5V +/- 5%				
WATTS (IDLE)	1 W	1.2 W	3.5 W	1 W	
WATTS (ACTIVE)	2.5 W	4 W	10 W	2.5 W	

ENVIRONMENTAL

OPERATING TEMP.	5 °C to 55 °C	0 °C to 60 °C	0 °C to 70 °C	See MLC	0 °C to 70 °C
EXTENDED OPERATING TEMP.	Not available		See MLC-X	-40 °C to 85 °C	
STORAGE TEMP.	-40 °C to 70 °C	-40 °C to 85 °C			
ALTITUDE	10,000 ft. (3,000 meters)			80,000 ft. (24,000 meters)	
RELATIVE HUMIDITY	5% to 95% non-condensing				
SHOCK	20g, 11 millisecond terminal sawtooth pulse, OS1			40g, 11 millisecond terminal sawtooth pulse, OS2	
VIBRATION	0.04 g ² /Hz, 5 Hz to 100 Hz, V1			0.1 g ² /Hz, 100 Hz to 1000 Hz, V3	

PHYSICAL

FORM FACTOR	6U VME
WEIGHT	7.9 oz. (222 g) max for carrier, 3.3 oz. (93 g) max per drive module 14.5 oz. (408 g) max total (carrier + 2 drive modules)
PITCH	1.0"

NOTES

(1) Larger capacities available as new COTS 2.5" drives released.	
(2) Interface connected via front panel or P2.	
(3) Telcordia SR-322, issue 3, operating temp (40 °C), electrical stress (50%), environmental factor (1.0)	
(4) MLC	10 years at 0% TBW ramping down to 1 year at 100% TBW
(5) SLC	10 years at 10% TBW ramping down to 1 year at 100% TBW



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