

## 6U VME Carrier with SATA Interface and Removable SSD Modules

6U VME CARRIER WITH SATA INTERFACE AND REMOVABLE SSD MODULES is for applications that require the frequent removal of SSD, fast transfer rates and large capacities. It consists of two components: the 6U VME carrier board with SATA interface that mounts in one slot of 6U VME chassis and the removable SATA SSD Modules. The connectors between the drive module and the carrier are rated for 100,000 mating cycles to support frequent insertions and removals.

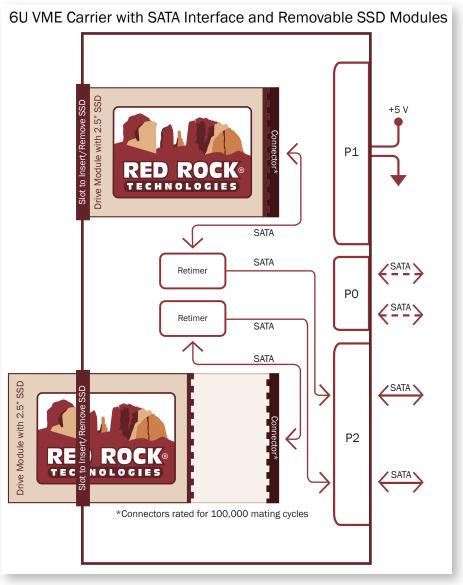
The drive module can use any COTS 2.5" SATA Solid State Drive (SSD) providing capacities up to 40TB (20TBx2) and transfer rates of up to 200MB/S. Options for FIPS140-2, FIPS197, TCG Opal, and military erase. Each drive has a separate SATA interface.



- Capacities up to 40TB (2x20TB)
- 200 MB/s transfer rates
- SATA interfaces via VME PO or P2
- Removable SSD modules
- Boot and/or storage disk
- 100,000 mating cycles
- COTS 2.5" SATA SSDs
- Military erase options
- FIPS 140-2, FIPS 197, TCG Opal options
- Option for thumbscrews to remove drive module without tools
- P2 adapter with SATA interface available

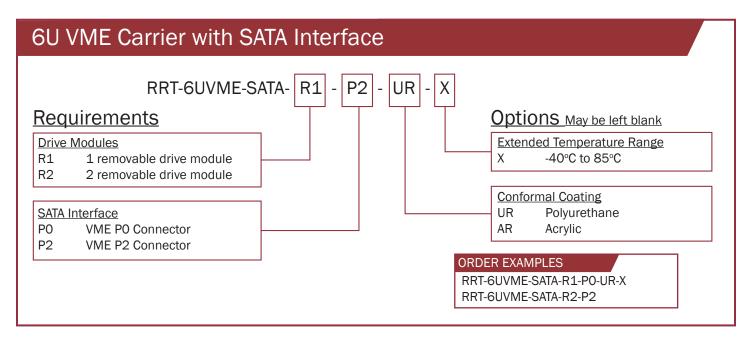


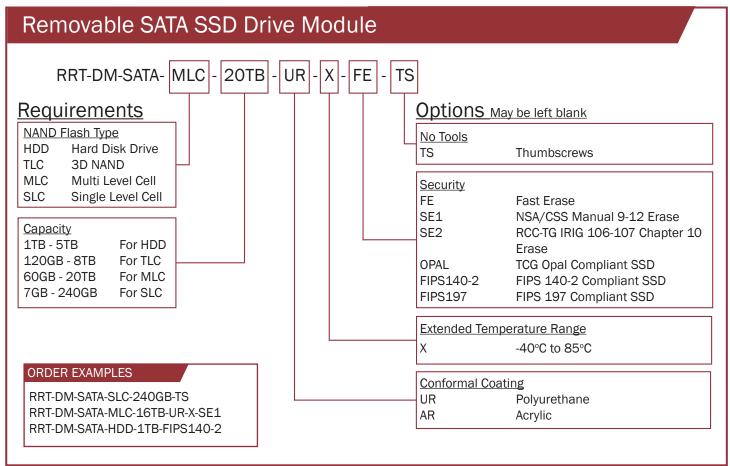
Parhelia B.V. www.parheliabv.com ①+31(0)10 741 00 28





## **Ordering Information**







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## **Product Specifications**

## 6U VME CARRIER WITH SATA INTERFACE AND REMOVABLE SSD MODULES

PERFORMANCE					
NAND FLASH TYPE	HDD	SSD: TLC	SSD: MLC	SSD: MLC-X	SSD: SLC
CAPACITIES <sup>1</sup>	Up to 5TB	Up to 8TB	Up to 20TB		Up to 240GB
INTERFACE <sup>2</sup>	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 <sup>3</sup>	3 million hours				
DATA RETENTION	Not applicable	1 year <sup>4</sup>			10 years <sup>5</sup>
ENDURANCE (100GB) TOTAL BYTES WRITTEN	Not applicable	70 TBW			350 TBW
CARRIER/DRIVE MODULE MATING CYCLES	100,000 mating cycles				
POWER					
VOLTAGE	+5V +/- 5%				
WATTS (IDLE)	1 W	1.2 W	3.5 W		1 W
WATTS (ACTIVE)	2.5 W	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 g2/Hz, 5 Hz to 100 Hz, V1			0.1 g2/Hz, 100 Hz to 1000 Hz, V3	
PHYSICAL					
FORM FACTOR	6U VME				
WEIGHT	11 oz. (310 g) max for carrier, 8.5 oz. (245 g) max per drive module 28 oz. (800 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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