# RED ROCK

## RRT-3UVPX-SATA-R-A 3U VPX Air Cooled Carrier with SATA Interface and Removable SSD Module

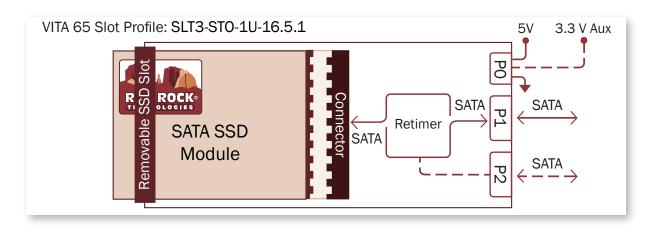
- Capacities up to 20TB
- 600MB/S transfer rates
- Removable SSD module
- SATA3 (SATA600) interface to VPX backplane
- 100,000 mating cycles
- VITA 65 Slot Profiles:
  SLT3-ST0-1U-16.5.1
- VITA 46, 47, 48, 65
- Boot and/or storage disk
- Air cooled
- Compatible with SATA1, 2
- COTS 2.5" SATA SSDs
- Military erase, FIPS140-2, FIPS197, TCG Opal options
- Option for thumbscrews to remove drive module without tools
- VPX Rear Transition module available for SATA interface



#### THE 3U VPX AIR COOLED CARRIER WITH SATA INTERFACE AND REMOVABLE SSD MODULE is for

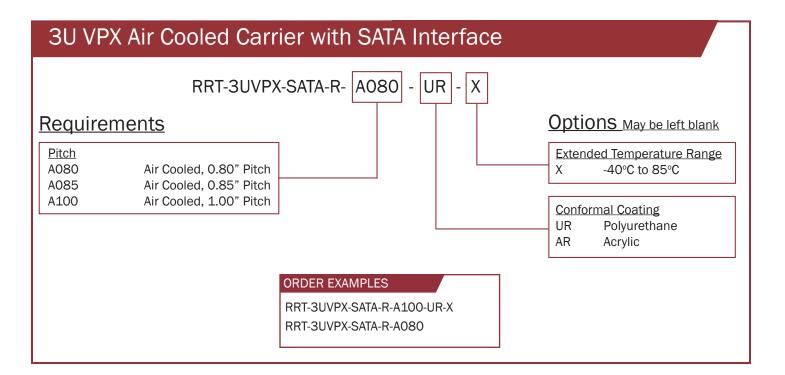
applications that require the frequent removal of SSD, fast transfer rates and large capacities. It consists of two components: the 3U VPX carrier board with SATA interface that mounts in one slot of 3U VPX chassis and the removable SATA SSD module. The connectors between the drive module and the carrier 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 20TB and transfer rates of up to 600MB/S. Options for FIPS140-2, FIPS197, TCG Opal, and military erase.

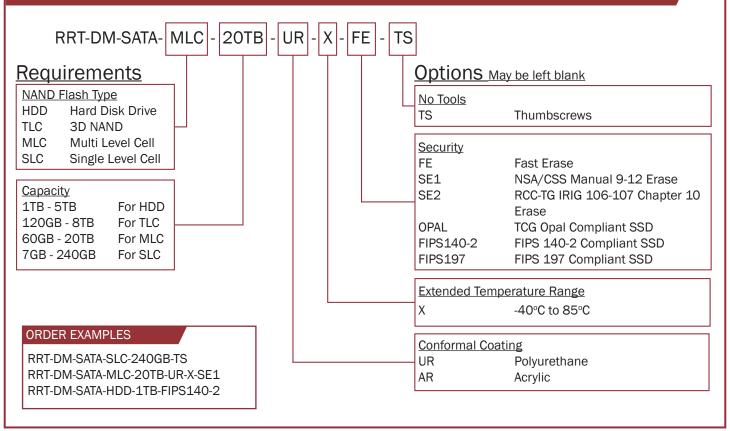


(480)-483-3777

## **Ordering Information**



### **Removable SATA SSD Drive Module**



#### 3U VPX AIR COOLED CARRIER WITH SATA INTERFACE AND REMOVABLE SSD MODULE

		PERFORM	ANCE			
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>	SATA3	•			<b>-</b>	
THROUGHPUT - SUSTAINED	130 MB/S	400 MB/S				
		RELIABIL	ITY			
MTBF-DRIVE	500,000 hours	1 million hours 2 million hours			3 million hours	
MTBF-DRIVE MODULE	3 million hours					
MTBF-VPX BOARD <sup>3</sup>	3 million hours					
DATA RETENTION	Not applicable	1 year			10 years	
ENDURANCE (100GB) TOTAL BYTES WRITTEN	Not applicable	70 TBW			350 TBW	
CARRIER/DRIVE MODULE MATING CYCLES	100,000 mating c	ycles			·	
	·	POWEI	۲			
VOLTAGE-STORAGE	+5V +/- 5%					
WATTS (IDLE)	1 W	1.2 W	3.5 W		1 W	
WATTS (ACTIVE)	2.5 W	4 W	10 W	W C		
		ENVIRONM	ENTAL		·	
OPERATING TEMP., VITA 47 CLASS	5°C to 55°C	0°C to 60°C, AC1	0°C to 70°C, AC1	See MLC	O°C to 7O°C, AC1	
EXTENDED OPERATING TEMP., VITA 47 CLASS⁴	Not available	lot available See MLC-X		-40°C to 85°C, AC3		
STORAGE TEMP.	-40°C to 70°C	-40°C to 85°C				
ALTITUDE	10,000 ft. (3,000	meters)		80,000 ft. (24,0	30,000 ft. (24,000 meters)	
RELATIVE HUMIDITY	5% to 95% non-condensing					
SHOCK, VITA 47 CLASS⁵	20g, 11 millisecond terminal sawtooth pulse, OS1			40g, 11 millisecond terminal sawtooth pulse, 0S2		
VIBRATION, VITA 47 CLASS <sup>6</sup>	0.04 g2/Hz, 5 Hz to 100 Hz, V1 C			0.1 g2/Hz, 100 Hz to 1000 Hz, V3		
		PHYSIC	AL	•		
FORM FACTOR	3U VPX					
WEIGHT	10 oz. max					
PITCH	0.8", 0.85", and 1.0" options					
	•	NOTES	S			
<ol> <li>Larger capacities available at (2) Interface connected via comp (3) Telcordia SR-322, Issue 3, op (4) Thermal qualification per MIL (5) Shock qualification per MIL-S (6) Vibration qualification per MI</li> </ol>	batible slot profile SLT berating temp (40C), e -STD-810, Method 50 TD-810F, Method 516	es released 3-STO-1U-16.5.1 electrical stress (50% 1, Procedure II, and 5, Procedure I	5), environmental facto			

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