

# **RRT-3UVPX-SATA-R-C 3U VPX Conduction Cooled** Carrier with SATA Interface and Removable SSD Module

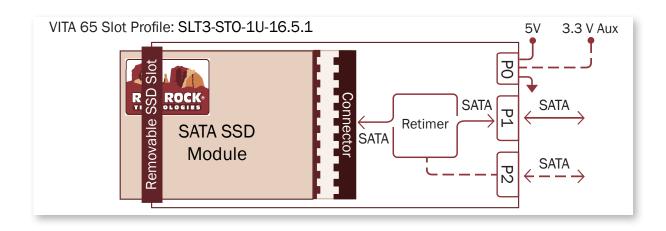
- · Capacities up to 20TB
- 600MB/S transfer rates
- Removable SSD module
- SATA3 (SATA600) interface to VPX backplane
- 100,000 mating cycles
- VITA 65 Slot Profiles:
  - SLT3-ST0-1U-16.5.1
- VITA 46, 47, 48, 65
- · Boot and/or storage disk
- · Conduction cooled
- Compatible with SATA 1, 2
- COTS 2.5" 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



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

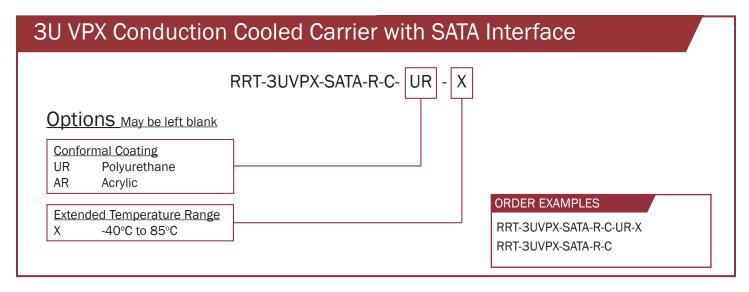
for applications that require the frequent removal of SSD, fast transfer rates and large capacities. It consists of two components: the 3U VPX carrier board with SATA interface that mounts in one slot of 3U VPX chassis and the removable SATA SSD module. The connectors between the drive module and the carrier are rated for 100,000 mating cycles to support frequent insertions and removals.

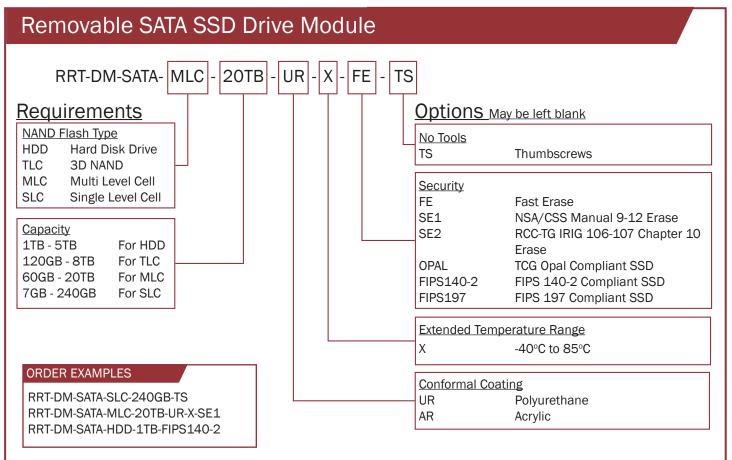
The drive module can use any COTS 2.5" SATA Solid State Drive (SSD) providing capacities up to 20TB and transfer rates of up to 600MB/S. Options for FIPS140-2, FIPS197, TCG Opal, and military erase.





### Ordering Information









## **Product Specifications**

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

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>	SATA3				
THROUGHPUT - SUSTAINED	130 MB/S	6 400 MB/S			
RELIABILITY					
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 cycles				
POWER					
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		2.5 W
ENVIRONMENTAL					
OPERATING TEMP., VITA 47 CLASS	5°C to 55°C	0°C to 60°C, CC1	0°C to 70°C, CC1	See MLC	0°C to 70°C, CC1
EXTENDED OPERATING TEMP., VITA 47 CLASS <sup>4</sup>	Not available		See MLC-X	X -40°C to 85°C, CC4	
STORAGE TEMP.	-40°C to 70°C				
ALTITUDE	10,000 ft. (3,000 meters)			80,000 ft. (24,000 meters)	
RELATIVE HUMIDITY	5% to 95% non-condensing				
SHOCK, VITA 47 CLASS	20g, 11 millisecond terminal sawtooth pulse, OS1			40g, 11 millisecond terminal sawtooth pulse, OS2	
VIBRATION, VITA 47 CLASS	0.04 g2/Hz, 5 Hz to 100 Hz, V1			0.04 g2/Hz, 100 Hz to 1000 Hz, V2	
PHYSICAL					
FORM FACTOR	3U VPX				
WEIGHT	10 oz. max				
PITCH	0.8"				

### **NOTES**

- (1) Larger capacities available as new COTS 2.5" drives released
- (2) Interface connected via compatible slot profile SLT3-STO-1U-16.5.1
- (3) Telcordia SR-322, Issue 3, operating temp (40C), electrical stress (50%), environmental factor (1.0)
- (4) Thermal qualification per MIL-STD-810, Method 501, Procedure II, and MIL-STD-810, Method 502, Procedure II



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