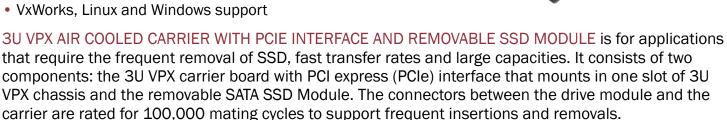


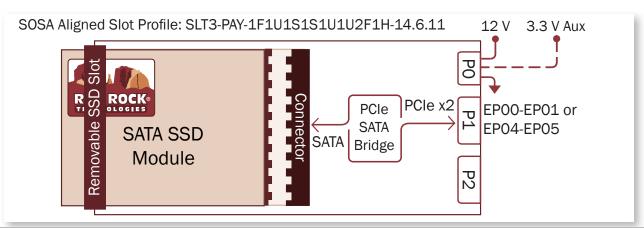
# **3U VPX Air Cooled Carrier with PCIe Interface and Removable SSD Module**

RRT-3UVPX-PCIe-R-A

- Capacities up to 20 TB
- 600 MB/S Transfer rates
- Removable SSD module
- OpenVPX Thin Pipe (TP) PCle x2 interface
- 100,000 mating cycles
- VITA 65 Slot Profiles:
  - SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11
    - VPX P1 EP00-EP01 OR
    - VPX P1 EP04-EP05
  - SLT3-PER-1F-14.3.2
- VITA 46, 47, 48, 65
- · Boot and/or storage disk
- Air cooled
- COTS 2.5" SATA SSDs
- SATA3 (SATA600) Interface to SSD
- Military erase, FIPS140-2, FIPS197, TCG Opal options
- Option for thumbscrews to remove drive module without tools
- IDE or AHCI Mode
- Desktop version available to connect drive module to PC

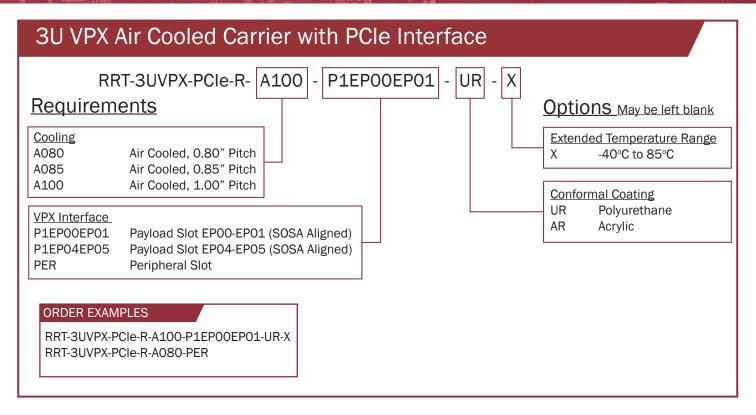


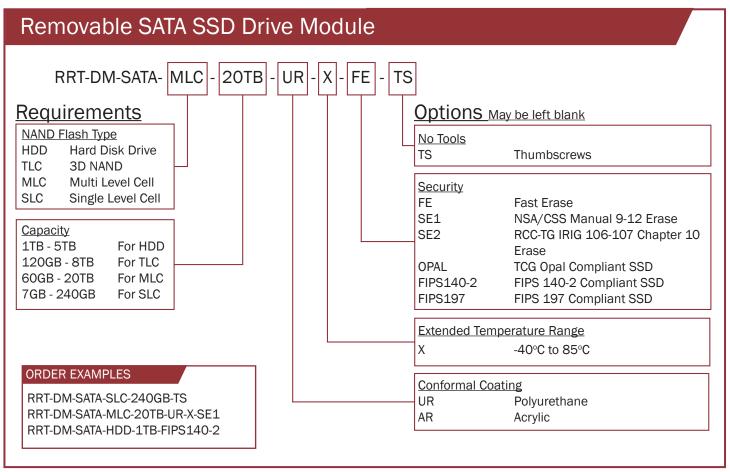
The drive module can use any COTS 2.5" SATA Solid State Drive (SSD) providing capacities up to 20TB and transfer rates of up to 600MB/S. Options for FIPS140-2, FIPS197, TCG Opal, and military erase.





# **Ordering Information**







## **Product Specifications**

### 3U VPX AIR COOLED CARRIER WITH PCIE 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>	PCle Gen 2 x 2	•			
THROUGHPUT - SUSTAINED	130 MB/S	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-PAYLOAD SLOT	+12V, +3.3V Aux				
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, AC1	0°C to 70°C, AC1	See MLC	0°C to 70°C, AC1
EXTENDED OPERATING TEMP., VITA 47 CLASS <sup>4</sup>	Not 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. (24,000 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			0.1 g2/Hz, 100 Hz to 1000 Hz, V3	
PHYSICAL					
FORM FACTOR	3U VPX				
WEIGHT	10 oz. max				
PITCH	0.8", 0.85", and 1.0" options				
NOTES					

- (1) Larger capacities available as new COTS 2.5" drives released
- (2) Interface connected via compatible slot profile SLT3-PAY-1F1U1S1S1U1U2F1H-146.11 or SLT3-PER-1F-14.3.2
- (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
- (5) Shock qualification per MIL-STD-810F, Method 516, Procedure I
- (6) Vibration qualification per MIL-STD-810F, Method 514, Procedure I



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