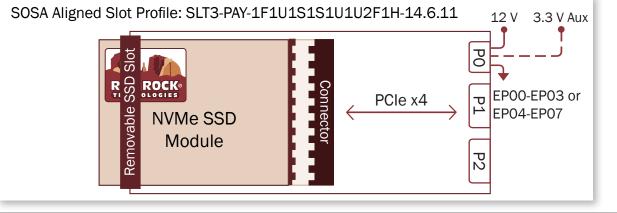


## RRT-3UVPX-NVMe-R-A 3U VPX Air Cooled Carrier with PCIe Interface and Removable NVMe SSD Module

- Capacities up to 16 TB
- 3940 MB/S Transfer rates
- Removable SSD module
- OpenVPX Fat Pipe (FP) PCIe x4 interface
- 100,000 mating cycles
- VITA 65 Slot Profiles:
  - SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11
    - VPX P1 EP00-EP03 OR
    - VPX P1 EP04-EP07
  - SLT3-PER-1F-14.3.2
- VITA 46, 47, 48, 65
- Boot and/or storage disk
- Air cooled
- COTS NVMe SSDs
- Military erase options
- FIPS140-2, FIPS197, TCG Opal options
- · Option for thumbscrews to remove drive module without tools
- PC kit available to connect drive module to PC
- VxWorks, Linux and Windows support

**3U VPX AIR COOLED CARRIER WITH PCIE INTERFACE AND REMOVABLE NVME 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 PCI express (PCIe) interface to VPX backplane that mounts in one slot of 3U VPX chassis and the removable NVMe 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 NVMe SSD module can use any COTS NVMe Solid State Drive (SSD) providing capacities up to 16TB and transfer rates of up to 3940 MB/S. Options for FIPS140-2, FIPS197, TCG Opal, and military erase.

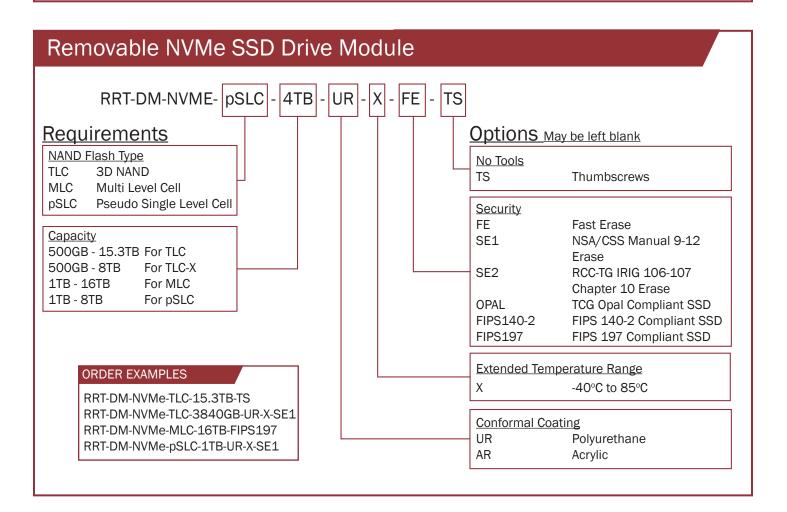


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## Ordering Information

## **3U VPX Air Cooled Carrier with PCIe Interface** RRT-3UVPX-NVMe-R-A- P1EP00EP03 -UR -X **Requirements** Options May be left blank VPX Interface Extended Temperature Range P1EP00EP03 Payload Slot EP00-EP03 (SOSA Aligned) -40°C to 85°C Х P1EP04EP07 Payload Slot EP04-EP07 (SOSA Aligned) PER **Peripheral Slot Conformal Coating** Polyurethane UR AR Acrylic ORDER EXAMPLES RRT-3UVPX-NVMe-R-A-P1EP00EP03-UR-X RRT-3UVPX-NVMe-R-A-PER



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

NAND FLASH TYPE	TLC	RMANCE MLC	pSLC	TLC-X	
CAPACITIES <sup>1</sup>	Up to 15.3TB	Up to 16TB	Up to 4TB	Up to 8TB	
INTERFACE <sup>2</sup>	PCIe Gen 3/4 x 4	PCIe Gen 2 x 4		PCIe Gen 3 x 4	
THROUGHPUT - SUSTAINED	3500MB/S (Gen3), 5000MB/S (Gen4)	800 MB/S	1000 MB/S	1500MB/S	
	RELI	ABILITY			
MTBF - DRIVE	1 million hours		2 million hours		
MTBF - VPX BOARD <sup>3</sup>	3 million hours				
DATA RETENTION	1 year		5 years	1 year	
ENDURANCE (100GB) TOTAL BYTES WRITTEN	70 TBW		250 TBW	70 TBW	
CARRIER/DRIVE MODULE MATING CYCLES	100,000 mating cycles				
	PO	WER			
VOLTAGE - PAYLOAD SLOT	+12V, +3.3V Aux				
VOLTAGE - PERIPHERAL SLOT	12V +/- 5%, +5V +/- 5%, +3.3V +/- 5%				
WATTS (IDLE)	7 W	1.5 W			
WATTS (ACTIVE)	20 W	10 W	W		
	ENVIRO	NMENTAL			
OPERATING TEMP., VITA 47 CLASS <sup>4</sup>	0° C to 55° C, AC1		0°C to 60°C, AC1	See TLC	
EXT. OPERATING TEMP., VITA 47 CLASS <sup>4</sup>	See TLC-X	Not available	-40°C to 85°C, AC3		
STORAGE TEMP.	-40°C to 85°C				
ALTITUDE	10,000 ft. (3,000 meters)		80,000 ft. (24,000 meters)		
RELATIVE HUMIDITY	5% to 95%				
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		
		SICAL	•		
FORM FACTOR	3U VPX				
WEIGHT	14 oz. max				
PITCH	1"				
	<u></u>	DTES		-	

- (3) Telcordia SR-332, issue 3, operating temp (40C), electrical stress (50%), environmental factor (1.0)
- (4) Thermal qualification per MIL-STD-810F, Method 501 Procedure II, and MIL-STD-810F, 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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