

# RRT-3UVPX-NVME-QUAD-M2-A 3U VPX Air Cooled Quad NVME M.2 SSD Module

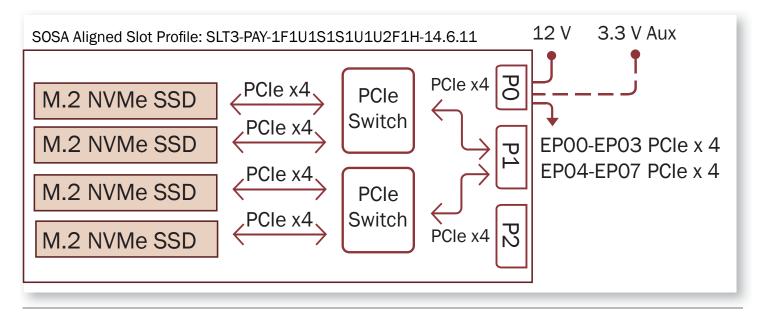
- Capacities up to 16TB (4 x 4TB)
- 3940 MB/S Transfer rates per interface
- Two OpenVPX Fat Pipe (FP) PCIe x4 interfaces
- VITA 65 Slot Profiles:
  - SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11
    - VPX P1 EP00-EP03
    - VPX P1 EP04-EP07
- VITA 46, 47, 48, 65
- Boot and/or storage disk
- Air cooled
- COTS M.2 NVMe SSDs
- Military erase options
- FIPS140-2, FIPS197, TCG Opal options
- Rugged design



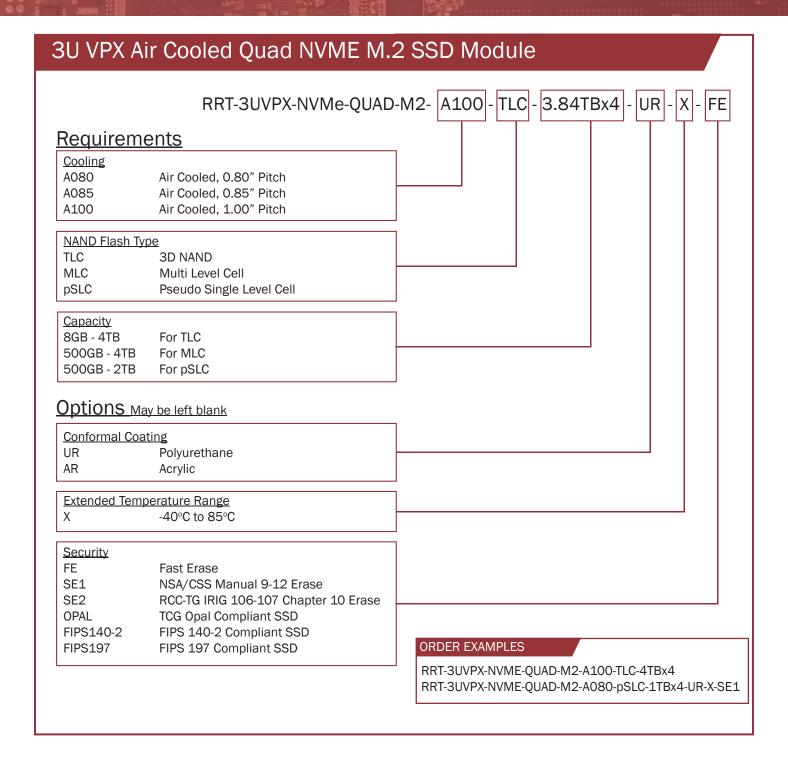
THE 3U VPX AIR COOLED QUAD NVME M.2 SSD MODULE adds 4 SSDs to a VPX system using one 3U VPX slot with COTS M.2 NVME Solid State Drives (SSDs) providing a wide range of capacity, speed. environmental and security options.

SOSA Aligned to use standard VITA 65 3U Payload Slot Profile with two OpenVPX Fat Pipes (FP) on Expansion plane:

- VPX P1 EP00 EP03 PCle x4 Interface1
- VPX P1 EP04 EP07 PCle x4 Interface2



## Ordering Information









### **Product Specifications**

### 3U VPX AIR COOLED CARRIER WITH QUAD M.2 NVME SSD MODULES

PERFORMANCE				
NAND FLASH TYPE	TLC	MLC	pSLC	TLC-X
CAPACITIES <sup>1</sup>	Up to 16TB	Up to 16TB	Up to 8TB	Up to 15.3TB
INTERFACE <sup>2</sup>	PCle Gen 3 x 4	PCle Gen 2 x 4		PCle Gen 3 x 4
THROUGHPUT - SUSTAINED	3000MB/S (Gen3)	800 MB/S	1000 MB/S	1500MB/S
RELIABILITY				
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
POWER				
VOLTAGE - PAYLOAD SLOT	+12V, +3.3V Aux			
WATTS (IDLE)	15 W			
WATTS (ACTIVE)	30 W			
ENVIRONMENTAL				
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 70°C, AC2	
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 CLASS <sup>5</sup>	20g, 11 millisecond terminal sawtooth pulse, OS1		40g, 11 millisecond terminal sawtooth pulse, OS2	
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	16 oz. (545 grams)			
PITCH	0.8", 0.85" or 1"			
NOTES				

### **NOTES**

- (1) Larger capacities available as new COTS U.2 NVMe SSDs released
- (2) Interface connected via compatible slot profile SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11
- (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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