

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

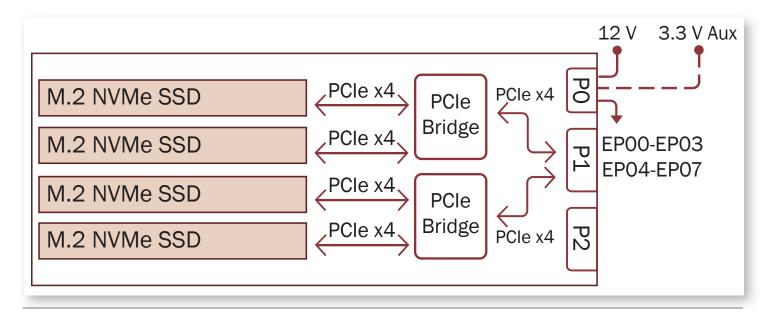
- Capacities up to 16TB (4 x 4TB)
- 3940 MB/S Transfer rates per interface
- Two OpenVPX Fat Pipe (FP) PCle x4 interface
- VITA 65 Slot Profiles:
 - SLT3-PAY-1F1U1S1S1U1U2F1H-14.6.11
 - VPX P1 EP00-EP03
 - VPX P1 EP04-EP07
- VITA 46, 47, 48, 65
- Boot and/or storage disk
- Air cooled
- COTS M.2 NVMe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

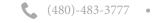


THE 3U VPX AIR COOLED QUAD NVME M.2 SSD MODULE adds 4 SSDs to a VPX system using one 3U VPX slot with COTS M.2 NVME Solid State Drives (SSDs) providing a wide range of capacity, speed. environmental and security options.

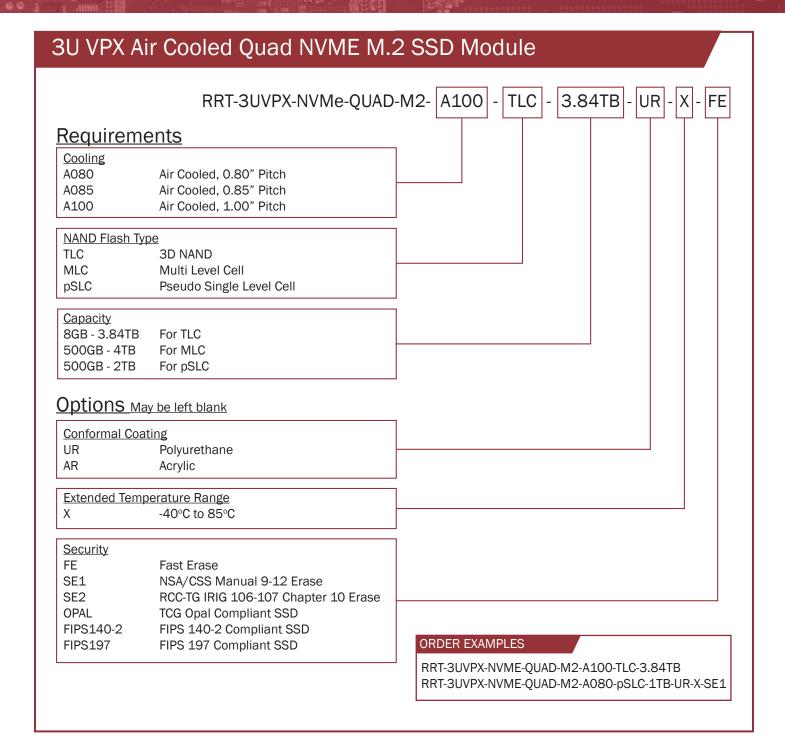
SOSA Aligned to use standard VITA 65 3U Payload Slot Profile with two OpenVPX Fat Pipes (FP) on Expansion plane:

- 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 ¹	Up to 15.36TB (3.84TB x 4)	Up to 16TB (4TB x 4)	Up to 8TB (2TB x 4)	Up to 15.36TB (3.84TB x 4)	
INTERFACE ²	PCle Gen 3 x 4	PCIe Gen 2 x 4		PCIe 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 ³	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	TAGE - PAYLOAD SLOT +12V, +3.3V Aux				
WATTS (IDLE)	7 W	1.5 W			
WATTS (ACTIVE)	20 W	10 W			
ENVIRONMENTAL					
OPERATING TEMP., VITA 47 CLASS ⁴	0°C to 55°C, AC1		0°C to 60°C, AC1	See TLC	
EXT. OPERATING TEMP., VITA 47 CLASS ⁴	See TLC-X	Not available	-40°C to 65°C, AC2		
STORAGE TEMP40°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 ⁵	20g, 11 millisecond terminal sawtooth pulse, OS1		40g, 11 millisecond terminal sawtooth pulse, OS2		
VIBRATION, VITA 47 CLASS ⁶	0.04 g2/Hz, 5 Hz to 100 Hz, V1 0.1 g2/Hz, 100		0.1 g2/Hz, 100 Hz to	o 1000 Hz, V3	
PHYSICAL					
FORM FACTOR	3U VPX				
WEIGHT	14 oz. max				
PITCH	1"				

- (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 OR SLT3-PER-1F-14.3.2
- (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



Red Rock Technologies, Inc. reserves the right to modify, change or discontinue specific products within its product line at its own discretion. Red Rock Technologies, Inc. does not assume any liability resulting from the application or use of its products. The information contained herein has been checked and is believed to be entirely accurate; however, no responsibility is assumed for inaccuracies. "Red Rock Technologies" and the mountain logo are registered trademarks of Red Rock Technologies, Inc. © Copyright 2024 Red Rock Technologies, Inc. All rights reserved. (Rev. 20240214a)







