

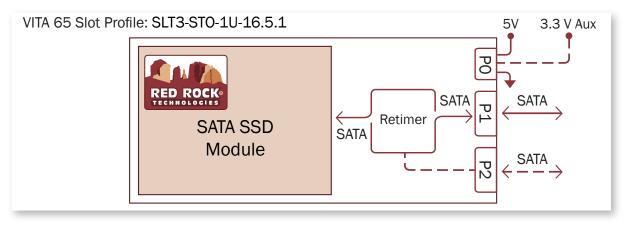
RRT-3UVPX-SATA-A 3U VPX Air Cooled SSD Module with SATA Interface

THE 3U VPX AIR COOLED SSD MODULE WITH SATA INTERFACE to VPX backplane adds SSD to a VPX system using one 3U VPX slot with COTS 2.5" SATA Solid State Drives (SSDs) providing capacities up to 20TB and transfer rates of up to 600MB/S. Options for FIPS140-2, FIPS197, TCG Opal, and military erase.

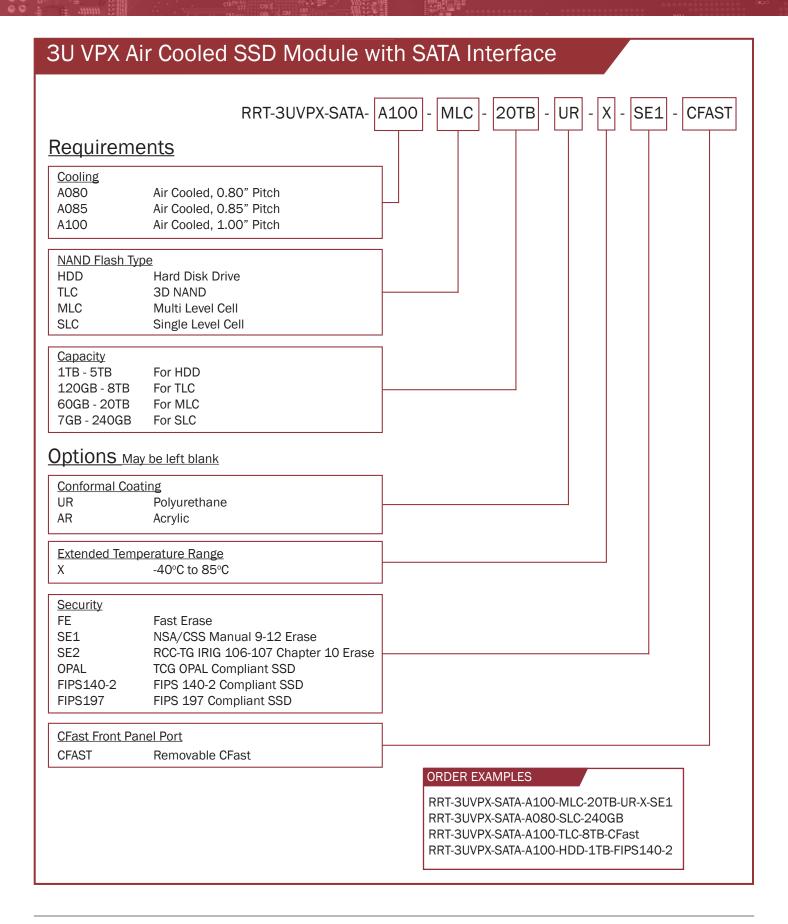
Optional removable CFast port on front panel with CFast secured by a rugged retainer clip. CFast is the same form factor as Compact Flash but has a SATA interface for faster speeds.

- Capacities up to 20TB
- 600MB/S transfer rates
- SATA3 (SATA600) interface to VPX backplane
- VITA 65 Slot Profiles:
 - SLT3-ST0-1U-16.5.1
- VITA 46, 47, 48, 65
- Boot and/or storage disk
- Air cooled
- Compatible with SATA1, 2
- COTS 2.5" SATA SSDs
- Military erase options
- FIPS140-2, FIPS197, TCG Opal options
- Option for removable CFast port
- VPX Rear Transition module available for SATA interface





Ordering Information















Product Specifications

3U VPX AIR COOLED SSD MODULE WITH SATA INTERFACE

PERFORMANCE					
NAND FLASH TYPE	HDD	SSD: TLC	SSD: MLC	SSD: MLC-X	SSD: SLC
CAPACITIES ¹	Up to 5TB	Up to 8TB	Up to 20TB		Up to 240GB
INTERFACE ²	SATA3				'
THROUGHPUT - SUSTAINED	130 MB/S	400 MB/S			'
RELIABILITY					
MTBF-DRIVE	500,000 hours	1 million hours	2 million hours		3 million hours
MTBF-VPX BOARD ³	3 million hours				'
DATA RETENTION	Not applicable	1 year			10 years
ENDURANCE (100GB) TOTAL BYTES WRITTEN	Not applicable	70 TBW			350 TBW
CFAST CONNECTOR MATING CYCLES	10,000 mating cy	cles			
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, AC1	0°C to 70°C, AC1	See MLC	0°C to 70°C, AC1
EXTENDED OPERATING TEMP., VITA 47 CLASS ⁴	Not available	See MLC-X -40°C to 85°C, AC3		C3	
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, 0S1			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 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-ST0-1U-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
- (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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