

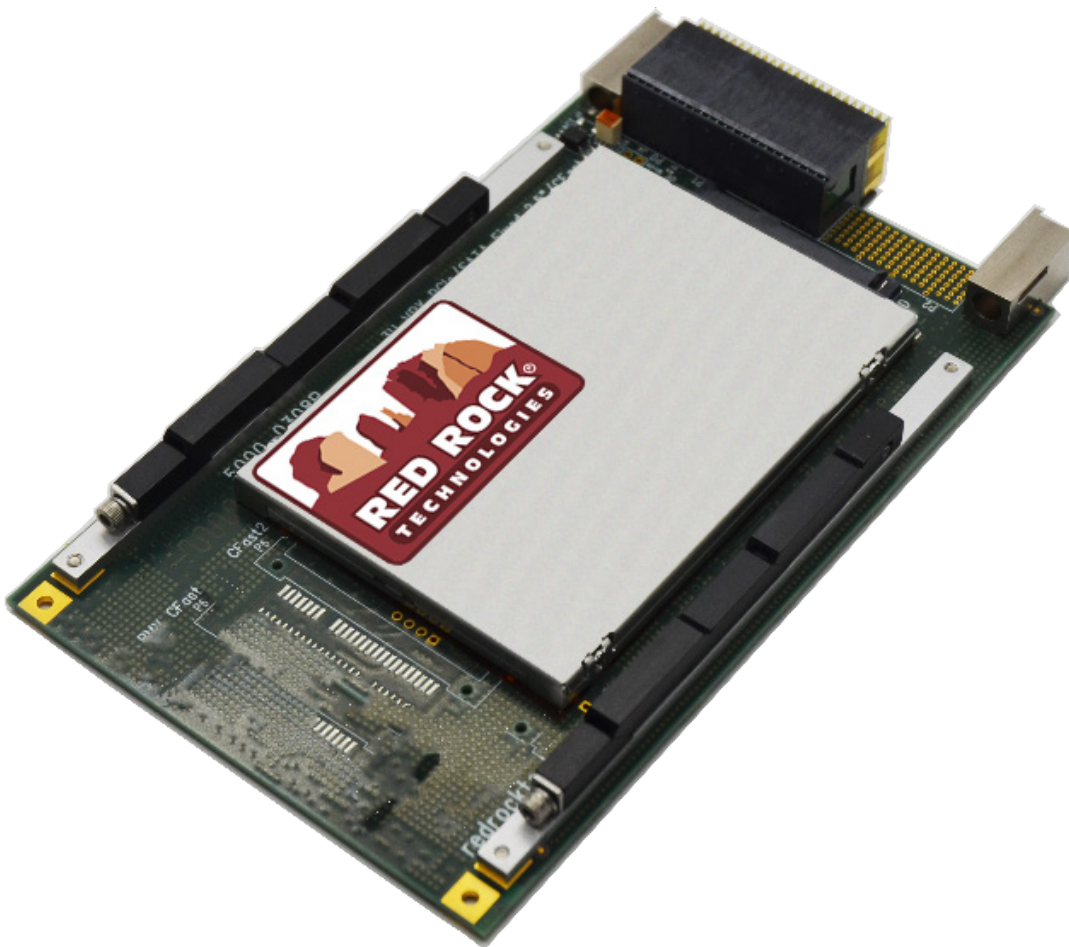
RRT-3UVPX-SATA-C

3U VPX Conduction Cooled SATA SSD Module

The 3U VPX Conduction Cooled SATA SSD module adds SSD to a VPX system using one 3U VPX slot with COTS 2.5" SATA Solid State Drives (SSDs) providing a wide range of capacity, speed, environmental and security options.

FEATURES

- Capacities up to 16TB
- 600 MB/S transfer rates
- SATA3 (SATA600) interface to VPX backplane
- Open VPX Ultra Thin Pipe MOD3-STO-1U-16.5.1-X
- VITA 46, 47, 48, 65
- Boot and/or storage disk
- Conduction cooled
- Compatible with SATA 1,2
- COTS 2.5" SATA SSDs
- Military erase options
- FIPS197, TCG Opal options
- Rugged design
- No additional software required
- VPX rear transition module available for SATA interface



3U VPX Conduction Cooled SSD Module with SATA Interface

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REQUIREMENTS	
NAND FLASH TYPE	
SLC	SINGLE LEVEL CELL
MLC	MULTI LEVEL CELL
TLC	TRI LEVEL CELL (3D)
CAPACITY	
CAPACITIES UP TO 16 TB	
OPTIONS (MAY BE LEFT BLANK)	
CONFORMAL COATING	
UR	POLYURETHANE
AR	ACRYLIC
EXTENDED TEMP. RANGE	
X	-40° C to 85° C
SECURITY	
FE	FAST ERASE
SE1	NSA/CSS MANUAL 9-12 ERASE
SE2	RCC-TG IRIG 106-107 CHAPTER 10 ERASE
OPAL	TCG OPAL COMPLIANT
FIPS197	FIPS197 COMPLIANT

EXAMPLES

RRT-3UVPX-SATA-C-MLC-8TB-UR-X-SE1

RRT-3UVPX-SATA-C-SLC-120GB

RRT-3UVPX-SATA-C-TLC-16TB

3U VPX Conduction Cooled SATA SSD Module

PERFORMANCE			
NAND FLASH TYPE	TLC	MLC	SLC
CAPACITIES ¹	UP TO 16TB	UP TO 8TB	UP TO 480GB
INTERFACE ²	SATA3	SATA3	SATA3
THROUGHPUT - SUSTAINED	450 MB/S	400 MB/S	400 MB/S
RELIABILITY			
MTBF-DRIVE	1 MILLION HOURS	1 MILLION HOURS	2 MILLION HOURS
MTBF-VPX BOARD ⁶	3 MILLION HOURS		
DATA RETENTION	1 YEAR	1 YEAR	10 YEARS
ENDURANCE (100GB) TOTAL BYTES WRITTEN	70 TBW	70 TBW	350 TBW
POWER			
VOLTAGE	+5V +/- 5%, +3.3V +/- 5%		
WATTS (IDLE)	1.2 W	3.5 W	1 W
WATTS (ACTIVE)	4 W	10 W	2.5 W
ENVIRONMENTAL			
OPERATING TEMP., VITA 47 CLASS ³	0 to 60C, CC1	0 to 60C, CC1 -40 to 85C, CC4 for -X option	
STORAGE TEMP.	-40°C to 85°C	-40°C to 85°C	
ALTITUDE	80,000 FT (24,000 METERS)		
RELATIVE HUMIDITY	5% TO 95%		
SHOCK, VITA 47 CLASS ⁴	40 g 11 MILLISECOND HALF-SINE, OS2		
VIBRATION, VITA 47 CLASS ⁵	0.1 g ² /HZ100 HZ TO 1000 HZ, V3		
PHYSICAL			
FORM FACTOR	3U VPX		
WEIGHT	10 OZ MAX		
PITCH	0.8"		
NOTES			
<p>(1) Larger capacities available as new COTS 2.5" drives released (2) Interface connected via compatible slot profile SLT3-STO-2U-14.5x or rear transition module (3) Thermal qualification per MIL-STD-810, Method 501, Procedure II, and MIL-STD-810, Method 502, Procedure II (4) Shock qualification per MIL-STD-810F, Method 516, Procedure I (5) Vibration qualification per MIL-STD-810F, Method 514, Procedure 1 (6) Telcordia SR-322, Issue 3, operating temp (40C), electrical stress (50%), environmental factor (1.0)</p>			

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