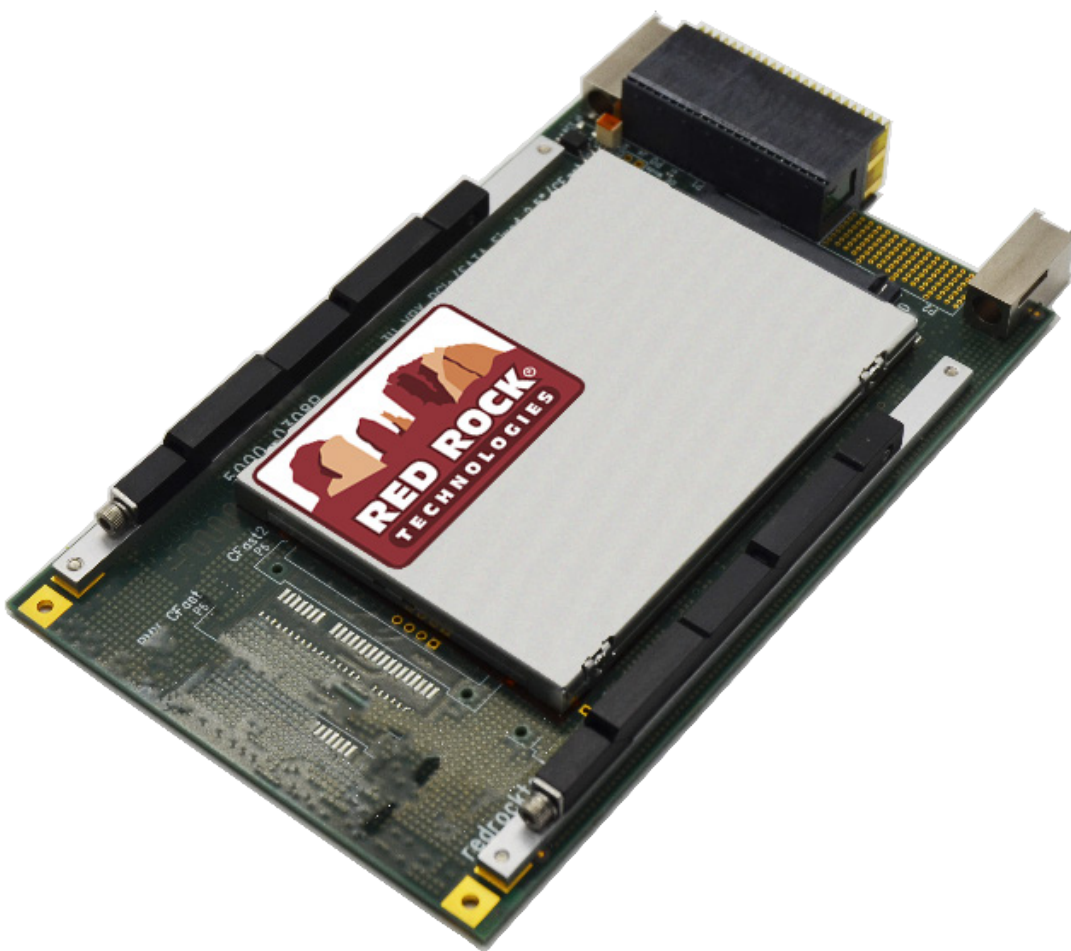


RRT-3UVPX-PCIe-C

3U VPX Conduction Cooled SSD Module with PCIe Interface

The 3U VPX Conduction Cooled SSD module with PCIe 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 a wide range of capacity, speed, environmental and security options



FEATURES

- Capacities up to 16TB
- 600MB/S transfer rates
- PCIe Gen 2x2 interface
- Open VPX Thin Pipe (TP) MOD3-PER-IT-16.3.3-X
- VITA 46, 47, 48, 65
- Boot and/or storage disk
- Conduction cooled
- Uses COTS 2.5" SATA SSDs
- SATA 3 (SATA600) Interface to SSD
- Military erase options
- FIPS197, TCG Opal options
- Rugged design
- IDE or AHCI Mode
- Current limited
- Power supplied from VPX backplane
- VxWorks, Linux, Windows Support

3U VPX Conduction Cooled SSD Module with PCIe InterfaceRRT-3UVPX-PCIe-C-----

REQUIREMENTS	
NAND FLASH TYPE	
MLC	MULTI LEVEL CELL
SLC	SINGLE LEVEL CELL
TLC	TRI LEVEL CELL (3D)
CAPACITY	
CAPACITIES UP TO 16TB	
OPTIONS (MAY BE LEFT BLANK)	
CONFORMAL COATING	
UR	POLYURETHANE
AR	ACRYLIC
EXTENDED TEMP. RANGE	
X	-40C TO 85C
SECURITY	
FE	FAST ERASE
SE1	NSA/CSS MANUAL 9-12 ERASE
SE2	RCC-TG IRIG 106-07 CHAPTER 10 ERASE
OPAL	TCG OPAL COMPLIANT
FIPS197	FIPS197 COMPLIANT

EXAMPLES

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

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

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

3U VPX Conduction Cooled SSD Module with PCIe Interface

PERFORMANCE			
NAND FLASH TYPE	TLC	MLC	SLC
CAPACITIES¹	UP TO 16TB	UP TO 8TB	UP TO 480GB
INTERFACE²	PCIe Gen 2x2		
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 BOARD⁶	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	1.2 W	1 W
WATTS (ACTIVE)	2.5 W	2.5 W	2.5 W
ENVIRONMENTAL			
OPERATING TEMP., VITA 47 CLASS³	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 CLASS⁴	40 g 11 MILLISECOND HALF-SINE, OS2		
VIBRATION, VITA 47 CLASS⁵	0.1 g ² /HZ 100 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-PER-1X-14.3.X (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>			

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 2020 Red Rock Technologies, Inc.
All rights reserved. (Rev. 20200630b)