RRT-3UVPX-SATA-R-A

3U VPX Air Cooled SATA Carrier with Removable SSD Module

The 3U VPX Air Cooled SATA carrier with removable SSD module is for applications that require the frequent removal of SSD, fast transfer rates and large capacities. It consists of two components; the 3U VPX carrier board with SATA interface that mounts in one slot of 3U VPX chassis and the removable SATA SSD module. The connectors between the drive module and the carrier are rated for 100,000 mating cycles to support frequent insertions and removals.

The drive module can use any COTS 2.5" SATA Solid State Drive (SSD) providing capacities up to 16TB and transfer rates of up to 600MB/S. Options for TCG opal and military erase.



FEATURES

- Capacities up to 16 TB
- 600MB/S Transfer Rates
- Removable SSD module
- SATA3 (SATA600) Interface to VPX backplane
- 100,000 mating cycles
- Open VPX Ultra Thin Pipe (UTP) MOD3-STO-1U-16.5.1-x
- VITA 46, 47, 48, 65
- Boot and/or storage disk
- Air 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

206 W Julie Drive - Suite 2, Tempe, AZ 85283 Tel: <u>480-483-3777</u> | Toll Free: <u>1-800-808-7837</u> <u>www.redrocktech.com</u> | <u>info@redrocktech.com</u> © Copyright 2020 Red Rock Technologies, Inc.



ORDERING INFORMATION



<u>3U VPX Air Cooled Carrier</u> RRT-3UVPX-SATA-R-

	REQUIREMENTS				
	COOLING				
A080	AIR COOLED, 0.80" PITCH				
A085	AIR COOLED, 0.85" PITCH				
A100	AIR COOLED, 1.00" PITCH				
C	OPTIONS (MAY BE LEFT BLANK)				
	CONFORMAL COATING				
UR	POLYURETHANE				
AR	ACRYLIC				
	EXTENDED TEMP. RANGE				
X	-40° C to 85° C				

EXAMPLES: RRT-3UVPX-SATA-R-A100-UR-X RRT-3UVPX-SATA-R-A085

Removable SATA SSD Drive Module

RRT-DM-SATA-]-[]-[_]-[_]-

	NAND FLASH TYPE					
SLC	SINGLE LEVEL CELL					
MLC	MULTI LEVEL CELL					
TLC	TRI LEVEL CELL (3D)					
	CAPACITY					
CAPACIT	CAPACITIES UP TO 16 TB					
0	OPTIONS (MAY BE LEFT BLANK)					
	CONFORMAL COATING					
UR	POLYURETHANE					
AR	ACRYLIC					
	EXTENDED TEMP. RANGE					
Х	-40°C to 85°C					
	NO TOOLS					
TS	THUMB SCREWS					
	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-DM-SATA-TLC-16TB RRT-DM-SATA-SLC-1TB-UR-X-SE1 RRT-DM-SATA-MLC-8TB-UR-X

206 W Julie Drive - Suite 2, Tempe, AZ 85283 Tel: <u>480-483-3777</u> | Toll Free: <u>1-800-808-7837</u> <u>www.redrocktech.com</u> | <u>info@redrocktech.com</u> © Copyright 2020 Red Rock Technologies, Inc.



<u>3U VPX Air Cooled SATA Carrier with Removable SSD Module</u></u>

	PERFOR	MANCE		
NAND FLASH TYPE	TLC	MLC	SLC	
	UP TO 16TB	UP TO 8TB UP TO 480GB		
INTERFACE ²	SATA3			
THROUGHPUT - SUSTAINED	450 MB/S	400 MB/S	400 MB/S	
	RELIA	BILITY		
MTBF-DRIVE	1 MILLION HOURS	1 MILLION HOURS	2 MILLION HOURS	
MTBF-VPX BOARD ⁶	ĺ	3 MILLION HOURS		
DATA RETENTION	1 YEAR	1 YEAR 10 YEARS		
ENDURANCE (100GB) TOTAL BYTES WRITTEN	70 TBW	70 TBW 350 TBW		
CARRIER/DRIVE MODULE MATING CYCLES	100,000 CYCLES			
	POV	VER		
VOLTAGE		+5V +/- 5%, +3.3V +/- 5%		
WATTS (IDLE)	1.2 W	1.2 W	1.2 W	
WATTS (ACTIVE)	2.5 W	2.5 W	2.5 W	
	ENVIRON	IMENTAL		
OPERATING TEMP., VITA 47 CLASS ³	0 to 60C, AC1	0 to 60C, AC1 -40 to 85C, AC3 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 CLASS ⁵	0.1 g²/HZ100 HZ TO 1000 HZ, V3			
	PHYS	SICAL		
FORM FACTOR	3U VPX			
WEIGHT	10 OZ MAX			
	0.8"			
PITCH				

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. 20200625a)

