

6U VPX Air Cooled Carrier with PCIe Interface and Removable SATA SSD Modules

RRT-6UVPX-PCIe-R-A

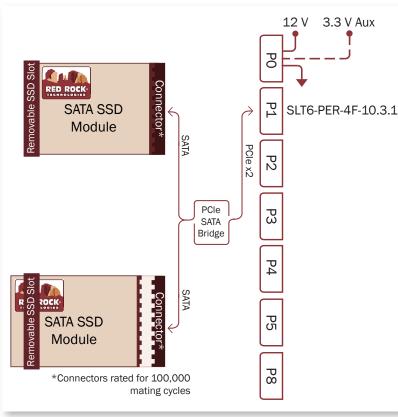
6U VPX AIR COOLED CARRIER WITH PCIE INTERFACE AND REMOVABLE SATA SSD MODULES is for

applications that require the frequent removal of SSD, fast transfer rates and large capacities. It consists of two components: the 6U VPX carrier board with PCI express (PCIe) interface to VPX backplane that mounts in one slot of 6U VPX chassis and the removable NVMe SSD modules. The connectors between the drive module and the carrier are rated for 100,000 mating cycles to support frequent insertions and removals.

The SATA SSD module can use any COTS SATA Solid State Drive (SSD) providing capacities up to 40TB (16TB per drive module) and transfer rates of up to 600 MB/S.

- Capacities up to 40TB (2 x 20TB)
- 600 MB/S transfer rates
- 100,000 mating cycles
- Removable module with COTS SATA SSDs
- Two OpenVPX Fat Pipe (FP) PCIe x4 interfaces
- 100,000 mating cycles
- VITA 65 Slot Profiles (SOSA Aligned):
 - SLT6-PER-4F-10.3.1
- VITA 46, 47, 48, 65
- Boot and/or storage disk
- Air cooled
- Military erase options
- FIPS140-2, FIPS197, TCG Opal options
- Option for thumbscrews to remove drive module without tools
- Requires only +12V and +3.3V Aux power





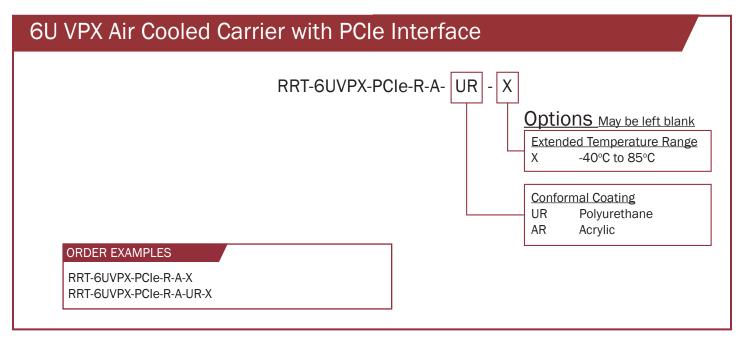


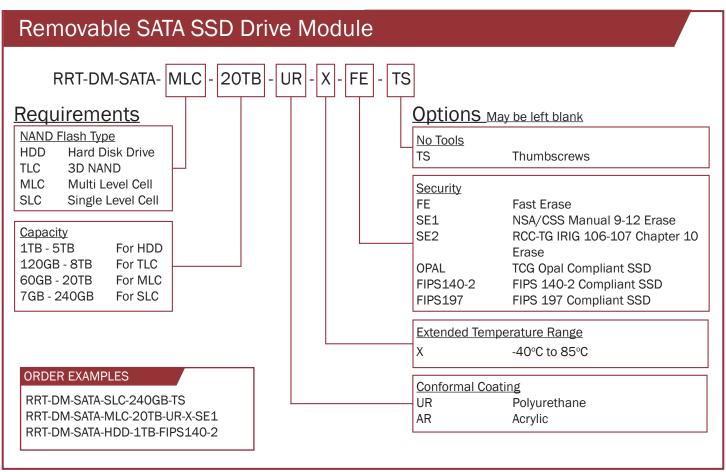


(480)-483-3777



Ordering Information







Product Specifications

6U VPX AIR COOLED CARRIER WITH PCIE INTERFACE AND REMOVABLE SATA SSD MODULES

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	PCIe Gen 2 x 2				
THROUGHPUT - SUSTAINED	130 MB/S	400 MB/S			
RELIABILITY					
MTBF-DRIVE	500,000 hours	1 million hours	2 million hours		3 million hours
MTBF-DRIVE MODULE	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
CARRIER/DRIVE MODULE MATING CYCLES	100,000 mating cycles				
POWER					
VOLTAGE-PAYLOAD SLOT	+12V, +3.3V Aux				
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		
STORAGE TEMP.	-40°C to 70°C				
ALTITUDE	10,000 ft. (3,000 meters)			80,000 ft. (24,000 meters)	
RELATIVE HUMIDITY	5% to 95% non-condensing				
SHOCK, VITA 47 CLASS	20g, 11 millisecond terminal sawtooth pulse, 0S1			40g, 11 millisecond terminal sawtooth pulse, 0S2	
VIBRATION, VITA 47 CLASS	0.04 g2/Hz, 5 Hz to 100 Hz, V1			0.04 g2/Hz, 100 Hz to 1000 Hz, V2	
PHYSICAL					
FORM FACTOR	3U VPX				
WEIGHT	10 oz. max				
PITCH	0.8", 0.85", and 1.0" options				
NOTEO					

NOTES

(1) Larger capacities available as new COTS 2.5" drives released

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- (2) Interface connected via compatible slot profile SLT3-PAY-1F1U1S1S1U1U2F1H-146.11 or SLT3-PER-1F-14.3.2
- (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



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