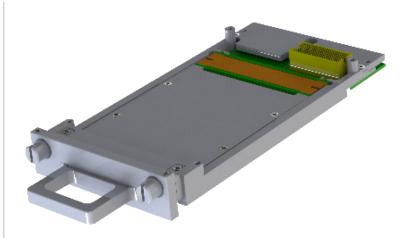


## RRT-XMC-R-A XMC with Removable NVMe SSD Module

- XMC PCIe Gen 3x4 interface per VITA 42.3
- Transfer rates up to 3000 MB/s (0 to 70C), 1500MB/S (-40 to 85C)
- Capacities up to 16TB (0 to 70C) and 8TB (-40 to 85C)
- Removable SSD module connectors rated for 100,000 mating cycles
- Air cooled
- Wide range of COTS NVME M.2 SSD options
- Meets XMC VITA 42 height requirements
- –X version rated for -40°C to 85°C
- Military erase, FIPS140-2, FIPS197, TCG Opal options

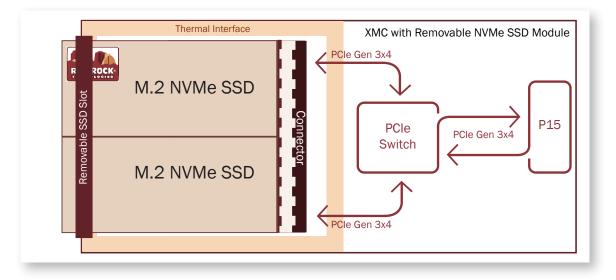


ROHS compliant

THE XMC WITH REMOVABLE NVME SSD MODULE is a mezzanine storage module that uses PCI Express interface for two M.2 NVME SSDs contained in a removable module.

Provides boot drive and/or disk storage for VPX, VME, cPCI and ATCA single board computers (SBCs) with XMC Slot.

The removable SSD module connectors are rated for 100,000 mating cycles to support frequent insertions/removals.

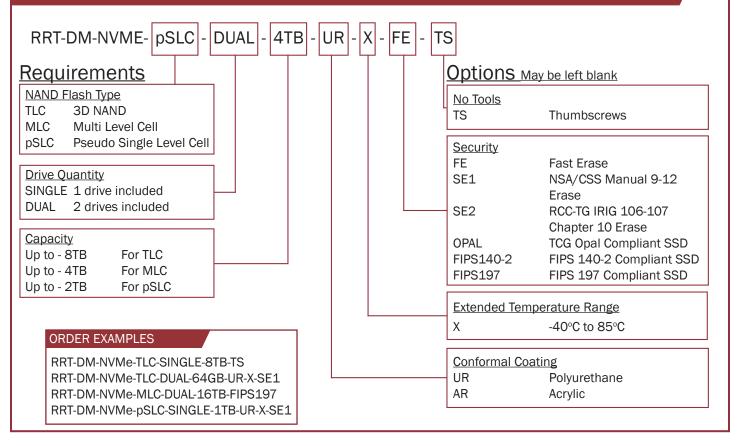




## **Ordering Information**

XMC with Removable NVMe SSD Module					
Options May be left blank	RRT-XMC-R-A- UR - X				
Conformal Coating UR Polyurethane AR Acrylic					
Extended Temperature Range X -40°C to 85°C	ORDER EXAMPLES RRT-XMC-R-A RRT-XMC-R-A-UR-X				

## Removable NVMe SSD Drive Module



**(**480)-483-3777 •

## XMC WITH REMOVABLE NVME SSD MODULE

PERFORMANCE XMC MODULE						
XMC INTERFACE	VITA42.3 PCle Gen3	VITA42.3 PCIe Gen3 x4				
XMC INTERFACE SPEED	3.938GB/s					
PERFORMANCE SSD						
NAND FLASH TYPE	TLC	MLC	pSLC	TLC-X		
CAPACITIES <sup>1</sup>	Up to 16TB (8TB x 2)	Up to 16TB (8TB x 2)	Up to 2.56TB (1.28TB x 2)	Up to 7.68TB (3.84TB x 2)		
INTERFACE <sup>2</sup>	PCIe Gen 3 x 4	PCle Gen 2 x 4		PCle Gen 3 x 4		
THROUGHPUT - SUSTAINED	3000MB/S (Gen3)	800 MB/S	1000 MB/S	1500MB/S		
RELIABILITY						
MTBF - SSD	1 million hours		2 million hours			
MTBF - XMC MODULE <sup>3</sup>	3 million hours					
DATA RETENTION	1 year		5 years	1 year		
ENDURANCE (100GB) TOTAL BYTES WRITTEN	70 TBW		250 TBW	70 TBW		
POWER						
VOLTAGE - PAYLOAD SLOT	VPWR +5V +/- 5% or +12V +/- 5%, +3.3+/- 0.3V					
WATTS (IDLE)	7 W	1.5 W				
WATTS (ACTIVE)	20 W	10 W				
ENVIRONMENTAL						
OPERATING TEMPERATURE <sup>4</sup>	0°C to 55°C		0° C to 60° C	See TLC		
EXT. OPERATING TEMPERATURE <sup>4</sup>	See TLC-X	Not available	-40°C to 85°C			
STORAGE TEMPERATURE	-40°C to 85°C					
ALTITUDE	10,000 ft. (3,000 meters)		80,000 ft. (24,000 meters)			
RELATIVE HUMIDITY	5% to 95%					
SHOCK	20g, 11 millisecond terminal sawtooth pulse					
VIBRATION	0.04g <sup>2</sup> /Hz, 100 Hz to 1000 Hz					
PHYSICAL						
FORM FACTOR	XMC					
WEIGHT	14 oz. max					
NOTES						
<ul><li>(1) Larger capacities available as new COTS U.2 NVMe SSDs released</li><li>(2) Interface connected per VITA 42.3</li></ul>						

(2) Interface connected per VITA 42.3

(4) Thermal qualification per MIL-STD-810F, Method 501 Procedure II, and MIL-STD-810F, Method 502, Procedure II



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 2024 Red Rock Technologies, Inc. All rights reserved. (Rev. 20240506a)