

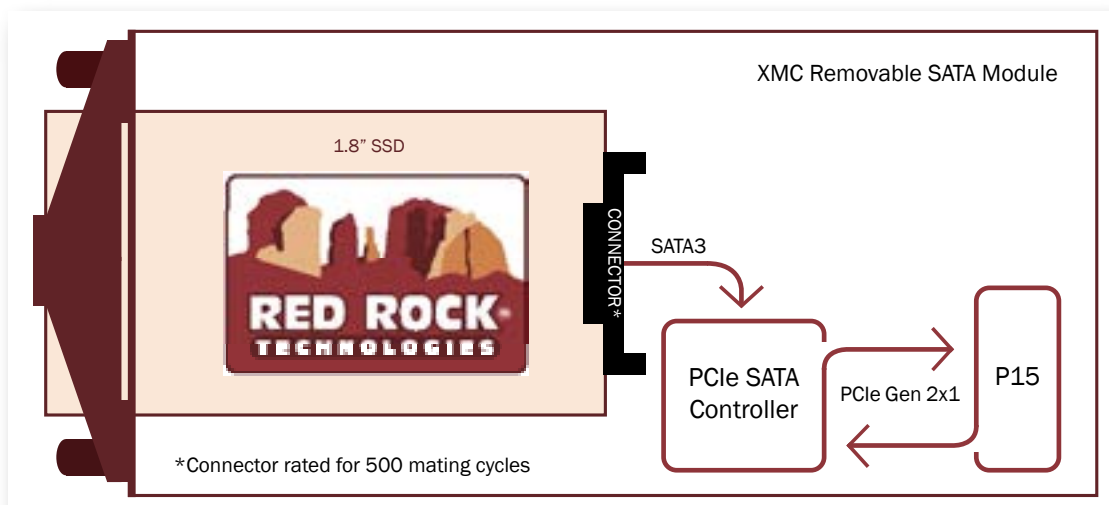


RRT-XMC-18S-R XMC Removable 1.8" SATA SSD Module

THE XMC REMOVABLE 1.8" SATA SSD MODULE is a XMC mezzanine storage module with a PCI Express SATA 3 controller that supports a removable 1.8" Solid State Drive (SSD).

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

- XMC PCIe Gen 2x1 interface per VITA 42.3
- Transfer rates up to 500 MB/s
- Wide range of COTS 1.8" SATA SSD options
- Capacities up to 2TB
- Air cooled
- SSD secured by rugged retainer clip
- Options for discrete controlled secure erase
- High performance SATA3 transfer rates
- Backwards compatible with SATA1 and SATA2
- Compatible with all SBCs with an XMC slot
- Meets XMC VITA 42 height requirements
- -X version rated for -40°C to 85°C
- ROHS compliant



Ordering Information

XMC Removable 1.8" SATA SSD Module

RRT-XMC-18S-R-UEFI64 - UR - X

Requirements

BIOS	
UEFI64	UEFI BIOS for 64-bit system
UEFI32	UEFI BIOS for 32-bit system
Legacy	Legacy BIOS for older systems

Options May be left blank

Extended Temperature Range	
X	-40°C to 85°C

Conformal Coating

UR	Polyurethane
AR	Acrylic

ORDER EXAMPLES

RRT-XMC-18S-R-UEFI64
RRT-XMC-18S-R-Legacy-UR-X

1.8" SATA SSD

RRT-18S-SLC - 8GB - X

Requirements

NAND Flash Type	
TLC	3D NAND
MLC	Multi Level Cell
SLC	Single Level Cell

Capacity	
2TB	TLC
30GB - 1TB	MLC
8GB - 120GB	SLC

Options May be left blank

Extended Temperature Range	
X	-40°C to 85°C

ORDER EXAMPLES

RRT-18S-SLC-120GB
RRT-18S-TLC-2TB
RRT-18S-MLC-480GB-UR-X



Product Specifications

XMC REMOVABLE 1.8" SATA SSD MODULE

PERFORMANCE

NAND FLASH TYPE	TLC	MLC	SLC
CAPACITIES	2TB	Up to 1TB	Up to 120GB
XMC INTERFACE	VITA 42.3/PCIe 2.0x1 Compliant		
XMC INTERFACE SPEED (PCIe GEN1/GEN2)	2.5/5Gbits/s		
CFAAST INTERFACE	SATA 3 backwards compatible with SATA 1/2		
SECTOR SIZE	512 bytes		

RELIABILITY

MTBF - XMC MODULE ¹	3 million hours
--------------------------------	-----------------

POWER

VOLTAGE	VPWR +5V +/- 5% or +12V +/- 5%, +3.3+/- 0.3V
WATTS (IDLE)	1.2 W
WATTS (ACTIVE)	2.5 W

ENVIRONMENTAL

OPERATING TEMPERATURE	0°C to 70°C
EXTENDED OPERATING TEMPERATURE ²	-40°C to 85°C
STORAGE TEMPERATURE	-55°C to 95°C
ALTITUDE	80,000 ft. (24,000 meters)
RELATIVE HUMIDITY	5% to 95% non-condensing
SHOCK	20g, 11 millisecond terminal sawtooth pulse
VIBRATION	0.04g ² /Hz, 100 Hz to 1000 Hz

PHYSICAL

FORM FACTOR	XMC
WEIGHT	3.5 oz. (100g max)

NOTES

- (1) Telcordia SR-322, Issue 3, operating temp (40C), electrical stress (50%), environmental factor (1.0).
 (2) Thermal qualification per MIL-STD-810, Method 501 Procedure II, and MIL-STD-810, 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. 20240502a)