

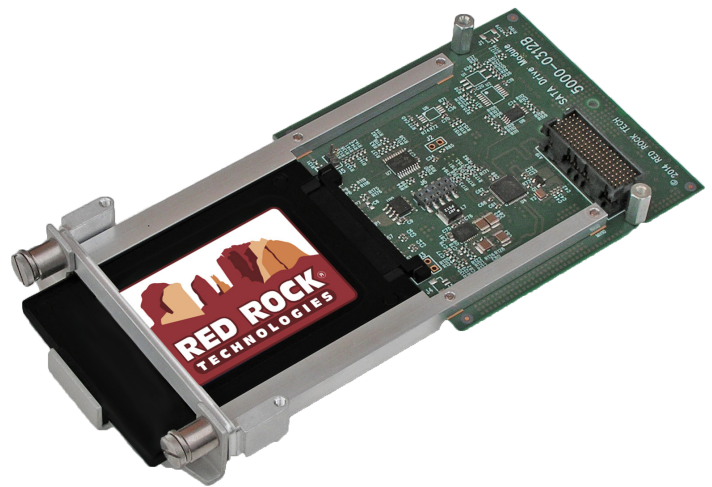


RRT-XMC-18S-R XMC Removable 1.8" SATA SSD Module

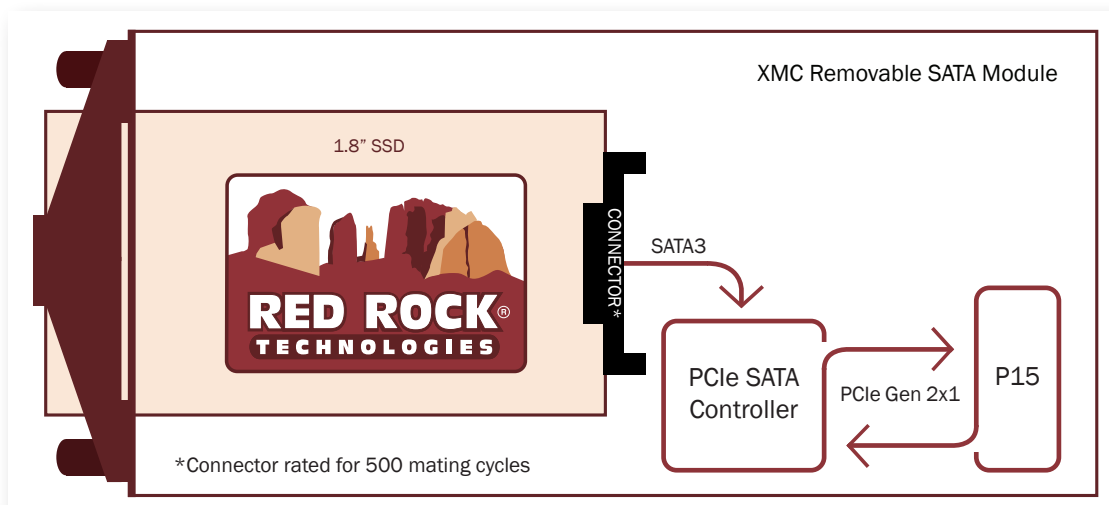
THE XMC REMOVABLE 1.8" SATA SSD MODULE is a XMC mezzanine storage module with a PCI Express SATA 3 controller that supports a removable 1.8" Solid State Drive (SSD).

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
- VxWorks, Linux, and Windows driver support
- ROHS compliant



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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



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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
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POWER

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

ENVIRONMENTAL

OPERATING TEMP., VITA 47 CLASS	0 °C to 70 °C, AC1
EXTENDED OPERATING TEMP., VITA 47 CLASS ²	-40°C to 85°C, AC3
STORAGE TEMP.	-55 °C to 95 °C
ALTITUDE	80,000 ft. (24,000 meters)
RELATIVE HUMIDITY	5% to 95% non-condensing
SHOCK, VITA 47 CLASS ³	40g, 11 millisecond terminal sawtooth pulse
VIBRATION ⁴	0.1g ² /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.
 (3) Shock qualification per MIL-STD-810F, Method 516, Procedure I.
 (4) Vibration qualification per MIL-STD-810F, Method 514, Procedure I.



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