

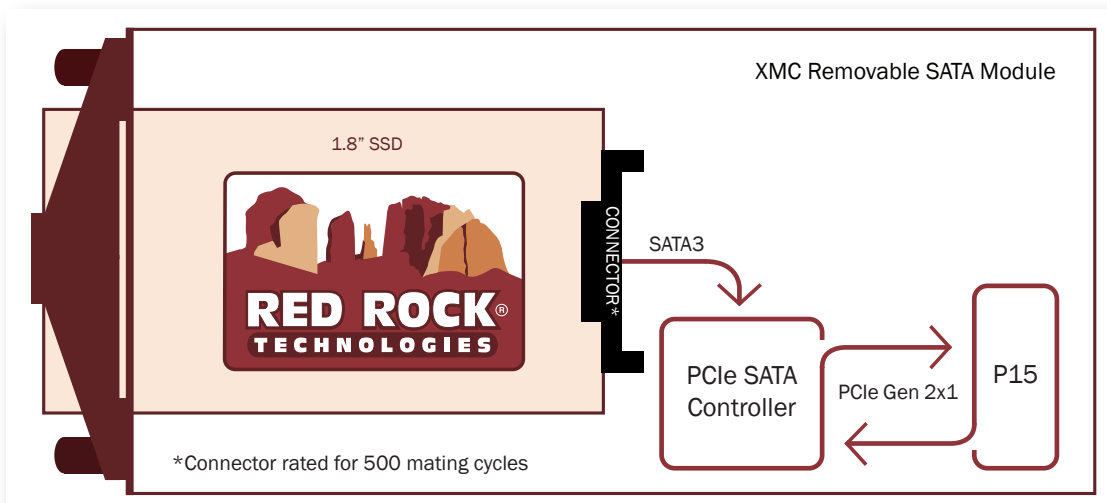
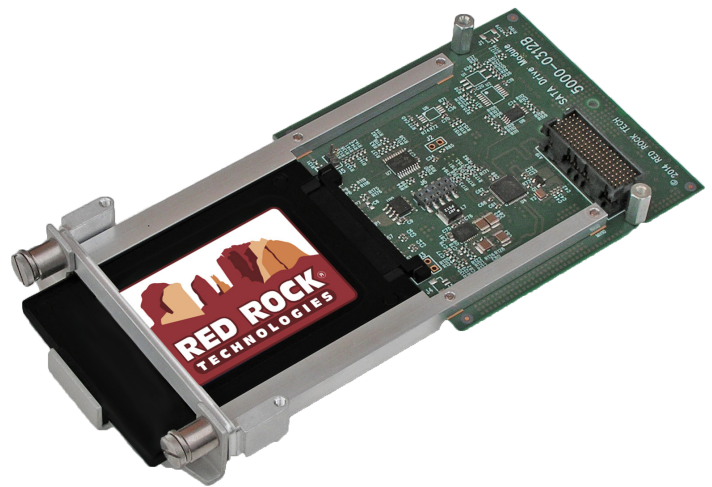


RRT-XMC-18S-R XMC Removable 1.8" SATA SSD Module

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



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 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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