



RRT-XMC-CFast-F-A

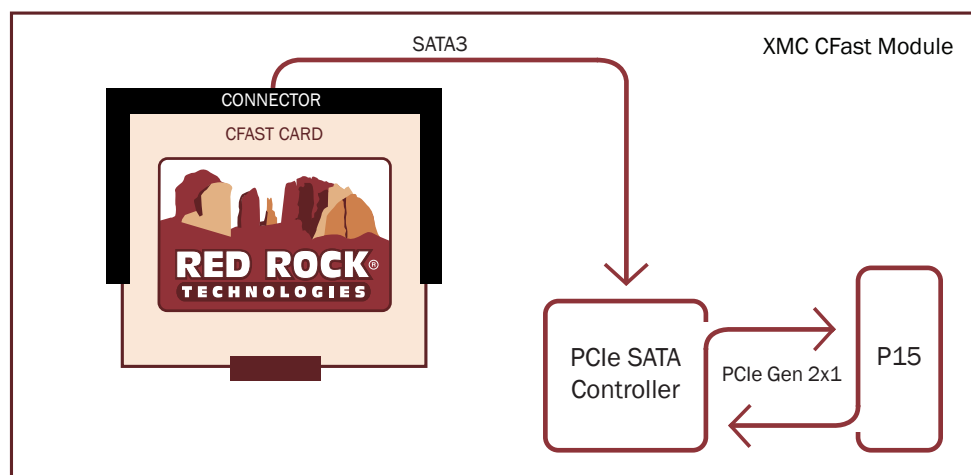
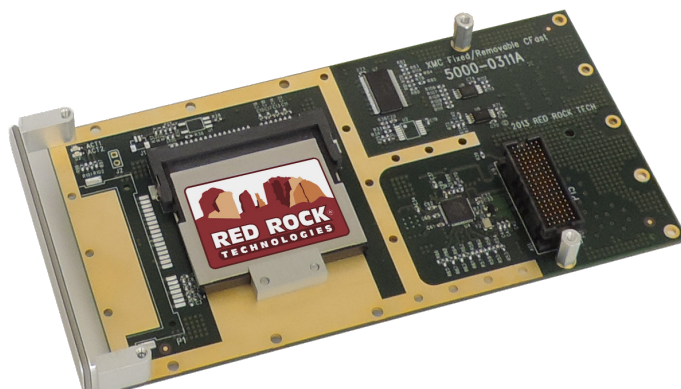
XMC CFast Module: Air Cooled

THE XMC CFAST MODULE: AIR COOLED is a mezzanine storage module with a PCI Express SATA 3 controller that supports one fixed CFast.

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

CFast is same form factor as Compact Flash but with SATA interface thus providing faster throughput.

- XMC PCIe Gen 2x1 interface per VITA 42.3
- Transfer rates up to 500 MB/s
- CFast capacities up to 1TB
- CFast connectors rated for 10,000 mating cycles
- Air cooled
- Wide range of COTS CFast options
- CFast secured by rugged retainer clip
- High performance SATA3 transfer rates. Backwards compatible with SATA1/2
- Compatible with all SBCs with XMC slot
- Meets XMC VITA 42 height requirements
- -X version rated for -40°C to 85°C
- CFast with write protect switch available
- Front panel activity LED
- VxWorks, Linux, and Windows driver support
- ROHS compliant



Ordering Information

XMC CFast Module: Air Cooled

RRT-XMC-CFast-F-A- **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-CFast-F-A-UEFI64
RRT-XMC-CFast-F-A-Legacy-UR-X

CFast Card

RRT-CFAST- **SLC** - **8GB** - **X** - **WP**

Requirements

NAND Flash Type

| | |
|-----|---------------------|
| SLC | Single Level Cell |
| MLC | Multi Level Cell |
| TLC | Tri Level Cell (3D) |

Capacity

| | |
|-------------|-----|
| 4GB - 64GB | SLC |
| 8GB - 512GB | MLC |
| 32GB - 1TB | TLC |

Options May be left blank

Write Protect

WP Write Protect

Extended Temperature Range

X -40°C to 85°C

ORDER EXAMPLES

RRT-CFAST-MLC-512GB
RRT-CFAST-SLC-8GB-X-WP



Product Specifications

XMC CFAST MODULE: AIR COOLED

PERFORMANCE

| | |
|--------------------------------------|---|
| CAPACITIES | Up to 1TB |
| XMC INTERFACE | VITA 42.3/PCIe 2.0x1 Compliant |
| XMC INTERFACE SPEED (PCIe GEN1/GEN2) | 2.5/5Gbits/s |
| CFAST 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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