



RRT-XMC-CFast-F-C

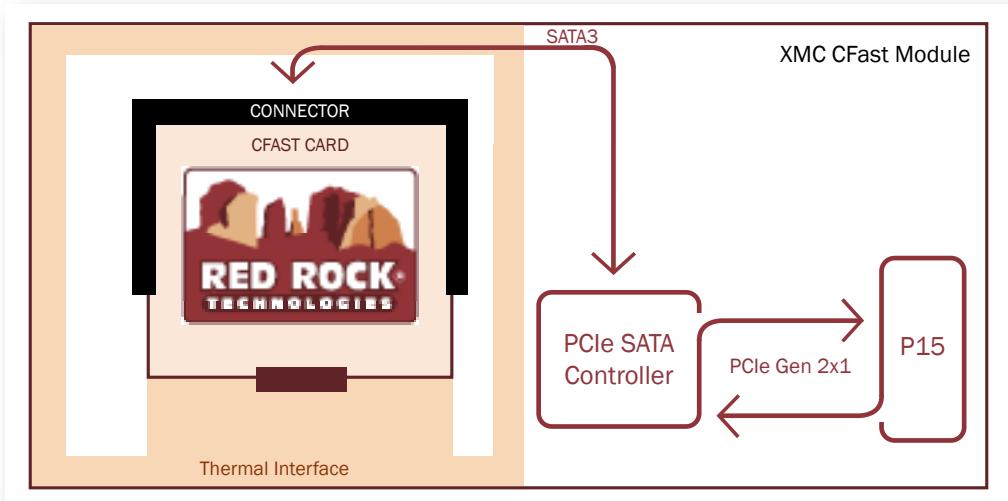
XMC CFast Module: Conduction Cooled

THE XMC CFAST MODULE: CONDUCTION 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
- Conduction 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
- ROHS compliant



Ordering Information

XMC CFast Module: Conduction Cooled

RRT-XMC-CFast-F-C- **UEFI64** - **UR** - **X**

Requirements

<u>BIOS</u>	UEFI BIOS for 64-bit system
UEFI64	
UEFI32	UEFI BIOS for 32-bit system
Legacy	Legacy BIOS for older systems

Options May be left blank

<u>Extended Temperature Range</u>	
X	-40°C to 85°C

Conformal Coating

UR	Polyurethane
AR	Acrylic

ORDER EXAMPLES

RRT-XMC-CFast-F-C-UEFI64
RRT-XMC-CFast-F-C-Legacy-UR-X

CFast Card

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

Requirements

<u>NAND Flash Type</u>	
SLC	Single Level Cell
MLC	Multi Level Cell
TLC	Tri Level Cell (3D)

Options May be left blank

<u>Write Protect</u>	
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: CONDUCTION 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 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)