



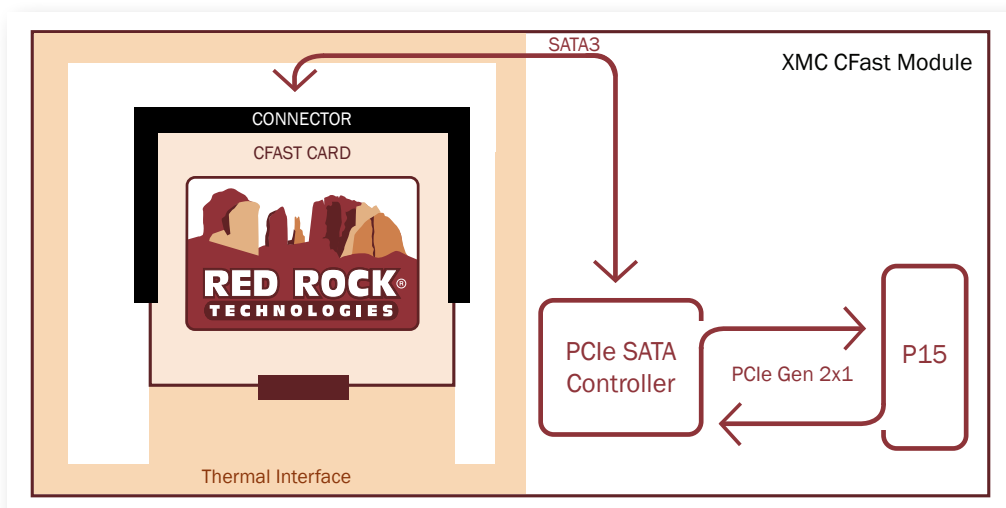
# RRT-XMC-CFast-F-C XMC CFast Module: Conduction Cooled

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



# Ordering Information

## XMC CFast Module: Conduction Cooled

RRT-XMC-CFast-F-C- **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-C-UEFI64  
RRT-XMC-CFast-F-C-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: 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 <sup>1</sup>	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, CC1
EXTENDED OPERATING TEMP., VITA 47 CLASS <sup>2</sup>	-40°C to 85°C, CC4
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 <sup>3</sup>	40g, 11 millisecond terminal sawtooth pulse
VIBRATION <sup>4</sup>	0.1g <sup>2</sup> /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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