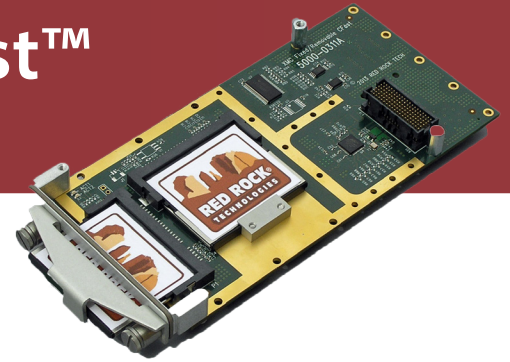


# XMC Fixed/Removable CFast™ Module



## RRT-XMC-CFast

The XMC Fixed/Removable CFast™ module is a mezzanine storage module with a dual-channel PCI Express to SATA 3 controller that supports:

- One Fixed CFast™
- One Removable CFast™
- One Fixed and one removable 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. The CFast™ connectors are rated for 10,000 mating cycles to support frequent insertions/removals.

### FEATURES:

- XMC PCIe Gen2 x1 interface per VITA 42.3
- Transfer rates up to 500 MB/s
- CFast™ capacities up to 1 TB (2 CF drives x 512 GB)
- Air or conduction cooled
- Uses COTS CFast™ drives for wide range of options
- Removable CFast™ drive secured by rugged retainer clip (air cooled)
- Robust design for extreme temperature, shock & vibration environments
- High performance SATA3 transfer rates. Backwards compatible with SATA1/2
- Compatible with all SBCs with XMC slot
- Meets XMC VITA 42 height requirements
- For -X version all parts rated for -40C to 85C. No parts derating
- CFast™ with write protect switch available
- VxWorks™, Linux and Windows™ drivers available
- Front panel activity LEDs (air cooled)
- ROHS compliant

# Ordering Information – XMC Fixed/Removable CFast™ Module

**RRT-XMC-CFast** - F - C - UR - X - SH12MM

## Requirements

### Port

R - Removable CFast™  
(air cooled versions only)  
F - Fixed CFast™  
B - One Fixed & 1 Removable  
CFast™

### Cooling

C - Conduction Cooled  
A - Air Cooled

## Options May be Left Blank

### Conformal Coating

UR - polyurethane  
AR - acrylic

### Extended Temperature Range

X - -40°C to 85°C

### Stack Height

SH12MM - Stack Height of 12mm (10 mm  
Stack Height standard)

Example: RRT-XMC-CFast-R-A  
Example: RRT-XMC-CFast-F-C-UR-X-SH12MM  
Example: RRT-XMC-CFast-R-F-A

# Ordering Information – CFast™ Drive

**RRT-CFast** - SLC - 512GB - 50 - X - WP

## Requirements

### NAND FLASH Type

SLC - Single Level  
MLC - Multi Level

### Capacity in MB or GB

Any capacity up to 512GB

## Options May be left blank

### Write Performance

30 - 30MB/s, 50 - 50MB/s, 100 - 100MB/s, 150  
- 150MB/s, 200 - 200MB/s; 300 - 300 MB/s

### Extended Temperature Range

X - -40°C to 85°C

### Write Protect

WP - Write Protect

Example: RRT-CFast-MLC-512GB-50  
Example: RRT-CFast-SLC-15GB-30-X-WP

# XMC Fixed/Removable CFast™ Module Specifications

Performance	
Capacities	4GB-1TB per COTS availability (2 CF Drives x 512GB)
XMC Interface	VITA 42.3/PCIe 2.0x1 Compliant
XMC Interface Speed Read/Write (PCIe Gen1/Gen2)	2.5/5Gbits/s
CFast™ Interface	SATA 3 backwards compatible with SATA 1/2
Sector Size	512
Reliability	
MTBF – Drive Carrier (1)	3 million hours
Power	
Voltage	VPWR +5V +/- 5% or +12V +/- 5% +3.3+/- 0.3V
Watts-idle	1.2
Watts-active	2.5
Environmental	
Temperature Operating, VITA 47 Class	0° to 70°C , AC1, CC1
Temperature Operating (2) , VITA 47 Class	-40° to 85°C , CC4, AC3
Temperature Storage	-55° to 95°C
Relative Humidity	5% to 95%
Altitude	80,000 ft (26,000 meters)
Shock (3), VITA 47 Class OS2	40g, 11 millisecond terminal sawtooth pulse
Vibration (4)	0.1g <sup>2</sup> /Hz
Physical	
Weight	3.5 oz; 100 g max

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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