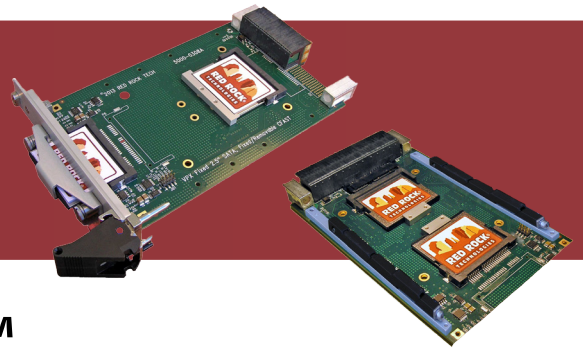


# 3U VPX SATA CFast™ Module



## RRT-3UVPX-SATA-CFast™

The 3U VPX SATA CFast™ module provides storage using COTS CFast™ Solid State Drives (SSDs) with various capacity, speed and cost options. The module provides SATA interface to VPX connectors and comes in the following configurations:

- One Fixed CFast™
- Two Fixed CFast™
- One Removable CFast™
- One Fixed and one removable CFast™

CFast™ is the same form factor as Compact Flash but has a SATA interface for faster speeds. CFast™ is the technology path forward.

## FEATURES:

- OpenVPX Ultra Thin Pipe (UTP) storage module profile MOD3-STO-1U-16.5.1-1 MOD3-STO-1U-16.5.1-2, and MOD3-STO-1U-16.5.1-3.
- 3UVPX Storage, VITA 46, 47, 48, 65
- CFast™ capacities up to 1 TB (2 CF drives x 512 GB)
- Conduction or air cooled versions
- Uses COTS CFast™ drives for a wide range of options
- Optional support for removable CFast™ secured by rugged retainer clip (air cooled only)
- Robust design for extreme temperature, shock and vibration environments
- SATA interface per OpenVpx storage module profile MOD-3-STO-1U-16.5.1-x or optional rear transition module
- High performance SATA3 (SATA600) transfer rates. Compatible with SATA1 and SATA2
- Compatible with all CPUs with a SATA controller
- Current Limited
- CFast™ with write protect switch available
- No additional software required
- Power supplied from VPX backplane

# Ordering Information – 3U VPX SATA CFast™ Module

**RRT-3UVPX-SATA-CFast** – **F1** – **A1.00** – **UR** – **X**

## Requirements

### Configuration

R – Removable CFast (air Cooled versions only)  
F1 – 1 Fixed CFast  
F2 – 2 Fixed CFast

### Cooling

C – Conduction Cooled  
A0.80 – Air Cooled, 0.80" pitch  
A0.85 – Air Cooled, 0.85" pitch  
A1.00 – Air Cooled, 1.00" pitch

## Options

### Conformal Coating

UR – polyurethane  
AR – acrylic

### Extended Temperature Range

X – -40°C to 85°C

Example: RRT-3UVPX-SATA-CFAST-A1.00-F2

Example: RRT-3UVPX-SATA-CFAST-A1.00-F1-R

Example: RRT-3UVPX-SATA-CFAST-C-F2

Example: RRT-3UVPX-SATA-CFAST-C-F1-UR-X

# 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

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# 3U VPX SATA CFast™ Module Specifications

Performance	
Capacities (1)	Up to 1TB
Interface (2)	SATA3 (SATA600)
Sector Size	512
Reliability	
MTBF-Drive Carrier (6)	3 million hours
Power	
Voltage	+5V +/- 5%, 3.3V +/- 5%
Watts-idle	1
Watts-active	2.5
Environmental	
Temperature Operating VITA 47 Class (3)	-40° to 85°C, CC4, AC3 for -X option -0° to 70°C, CC1, AC1 for Standard option
Temperature storage	50° to 100°C
Relative Humidity	5% to 95%
Altitude	80,000 ft (24,000 meters)
Shock (4), VITA 47 Class	40g, 100 to 1000 Hz, OS2
Vibration - Rugged (5)	0.1g <sup>2</sup> /Hz, 11 millisecond terminal sawtooth, V3
Physical	
Form Factor	3U VPX
Weight	10 oz. max (283 g)
Dimensions (W x L x H)	0.8", 0.85" and 1.0" options

(1) Larger capacities available as new COTS CFast™ drives released  
(2) Interface connected via compatible slot profile SLT3-STO-2U-14.5x or rear transition module  
(3) MIL-STD-810, Method 501, Procedure II, MIL-STD-810, Method 502, Procedure II  
(4) 11 millisecond shock half-sine per MIL-STD-810, Method 516, Procedure I  
(5) 100 Hz to 1000 Hz  
(6) Telcordia SR-322, Issue 3, operating temp (40C), electrical stress (50%), environmental factor (1.0)

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