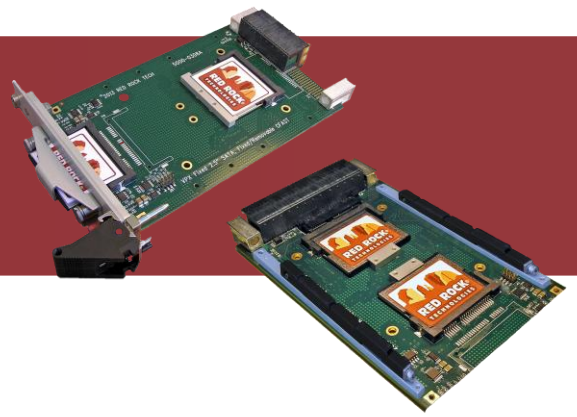


3U VPX SATA CFast™ Module



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 INCLUDE

- 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
- Conduction or air cooled versions
- Uses COTS CFast™ drives for wide variety of options
- Option 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
- No additional software required
- Power supplied from VPX backplane

Ordering Information

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

Requirements

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

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

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-R
- 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

CFast sold separately



3U VPX SATA CFast™ MODULE SPECIFICATIONS

Performance	
Capacities (1)	Up to 256GB
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 ² /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)

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 2016 Red Rock Technologies, Inc. All rights reserved. (Rev. 09/08/16)