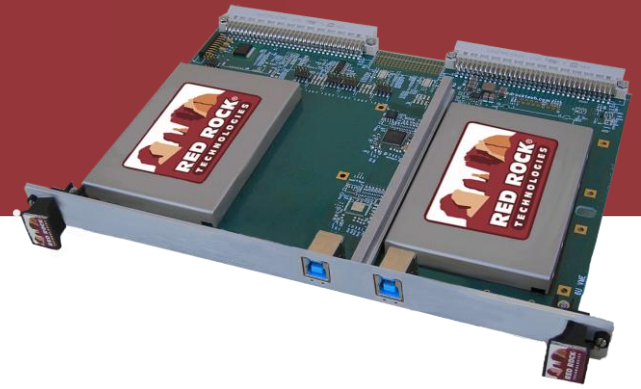


6U VME USB Drive Module



RRT-6UVME-USB

The 6U VME USB drive module provides storage using COTS 2.5" Hard Disk Drives (HDDs) or Solid State Drives (SSDs) with a range of capacity, speed and cost options.

Capacities up to 4TB in a single 6U VMEbus slot.

USB3 compliant interface with speeds up to 5Gbits/S.

Options for discrete, controlled, secure erase.

FEATURES INCLUDE

- USB interface to front panel or VME P1 or P2 connectors
- Provides boot disk and/or disk storage
- Commercial and extended temperature options
- Uses COTS 2.5" drives for wide range of versions
- Options for discrete, controlled secure erase
- Robust design for high temperature, shock & vibration environments
- High performance USB3 transfer rates. Backwards compatible with USB1 and USB2
- Compatible with all CPUs with a USB controller
- Front panel activity LEDs
- Current limited
- No additional software required
- ROHS compliant
- Power supplied from VMEbus; no separate power supply required

Security Options

ERASE/DESTROY OPTIONS INVOKED BY COMMAND OR BY DISCRETE INPUT

Fast Erase Sets all locations to set value

NSA/CSS Manual 9-12 Erase Erases all locations, including bad blocks, then sets all locations to 0x55, then internal verification is performed reading 1% of capacity confirming data pattern

RCC-TG IRIG 106-07 Chapter 10 Erase Erases all locations, including bad blocks, then sets all locations to 0x55, then sets all locations to 0xAA, and finally erased

Drive Destroy Performs erase of all NAND flash including internal SSD firmware, file system, and tables which makes the drive unusable and unreadable

Ordering Information

RRT-6UVME-USB – **FP** – **F2** – **MLC** – **480GB** – **FE** – **UR** – **X**

Requirements

USB Interface

FP – Front Panel
P0 – VME P0 Connector
P2 – VME P2 Connector

Drives

F1 – 1 fixed drive
F2 – 2 fixed drives

Disk Type

HDD – Hard Disk Drive
SLC – Single Level Cell SSD
MLC – Multi Level Cell SSD

Capacity of each Drive

Any capacity up to 2TB

Options May be left blank

Erase Types

FE – Fast Erase
SE1 – NSA/CSS Manual 9-12 Erase
SE2 – RCC-TG IRIG 106-07 Chapter 10

Conformal Coating

UR – polyurethane
AR – acrylic

Extended Temperature Range

X – -40°C to 85°C

Example: RRT-6UVME-USB-FP-F2-MLC-480GB-FE-UR-X

Example: RRT-6UVME-USB-FP-F1-HDD-500GB

6U VME USB DRIVE MODULE SPECIFICATIONS

Performance				
Version	HDD	SSD-SLC	SSD-MLC	SSD-Secure Erase
Capacities (1)	Up to 2TB	Up to 480GB	Up to 2TB	Up to 480GB
FLASH Type	NA	SLC	MLC	SLC
Interface (2)	USB3, USB2, USB1			
Sustained Throughput	130 MB/S		220 MB/S	
Sector Size	512			
Reliability				
MTBF-Drive (hours)	500,000	3 million	1 million	1.2 million
MTBF-Drive Module (3)	3 million hours			
Power				
Voltage	5 V+/- 5%			
Watts-Idle	1	1.2		1
Watts-active	2.5	2.5		2
Environmental				
Temperature – operating, VITA 47 Class	0 to 60C, CC1, AC1	-40 to 85C, CC4, AC3 for –X option 0 to 60C, CC1, AC1 for Standard SSD		
Temperature – storage	-40 to 70C	-40 to 85C		
Relative Humidity	5% to 95%			
Altitude	10,000 ft. 3000 meters	80,000 ft. 24,000 meters		
Shock, VITA 47 Class	20g, OS1	40g, OS2		
Vibration, VITA 47 Class	0.04 g ² /Hz,V2	0.01g ² /Hz,V2		
Physical				
Form Factor	6U VME			
Weight	Base module 7.9 oz (222g); each drive 3.3 oz (93g)			
Pitch	1.0"			
	(1) Larger capacities available as new COTS 2.5" drives released (2) Interface connected via compatible slot profile SLT3-STO-2U-14.5x or rear transition module (3) Telcordia SR-322, Issue 3, operating temp (40C), electrical stress (50%), environmental factor (1.0)			

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