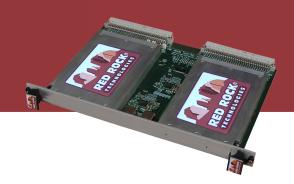
6U VME SATA Drive Module



RRT-6UVME-SATA

The 6U VME SATA 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.

SATA2 compliant interface with speeds up to 3Gbits/S.

Options for discrete, controlled, secure erase.

FEATURES INCLUDE

- SATA interface to front panel or VME P1 or P2 connectors
- Provides boot disk and/or disk storage
- Commercial and extended temperature versions
- Uses COTS 2.5" drives for wide range of options
- Options for discrete, controlled secure erase
- Robust design for high temperature, shock & vibration environments
- High performance SATA2 transfer rates. Backwards compatible with SATA1
- Compatible with all CPUs with a SATA controller
- Current limited
- No additional software required
- P2 adapter accessory available
- ROHS compliant
- Power supplied from VMEbus; no separate power supply required



Security Options

ERASE/DESTROY OPTIONS INVOKED BY COMMAND OR BY DISCRETE INPUT

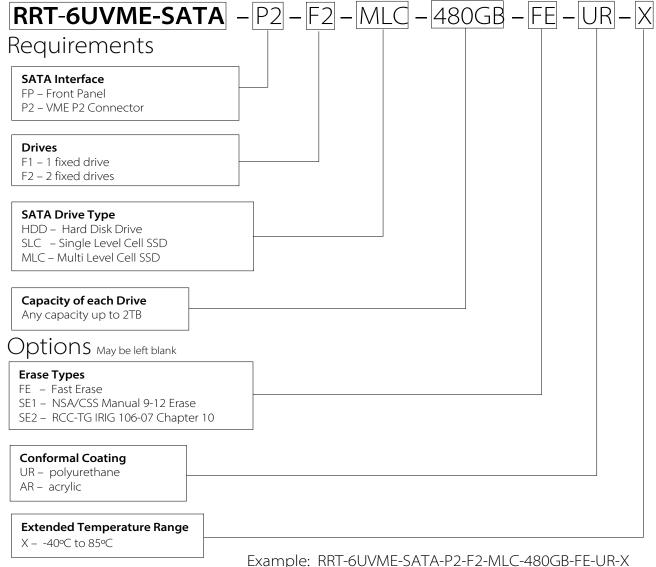
Fast Erase Sets all locations to set value

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



Example: RKT-6UVME-SATA-P2-F2-MLC-48UGB-FE-UK-X

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



6U VME SATA 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) | SATA2 (SATA 300) | | | |
| 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 – | 0 to 60C, CC1, AC1 | -40 to 85C, CC4, AC3 for -X option | | |
| operating, VITA 47 | | 0 to 60C, CC1, AC1 for Standard SSD | | |
| Class | | | | |
| Temperature – storage | -40 to 70C | -40 to 85C | | |
| Relative Humidity | 5% to 95% | | | |
| Altitude | 10,000 ft. | 80,000 ft. | | |
| | 3000 meters | 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) | | | | |

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

