



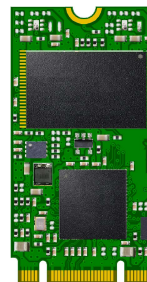
StorFly® M.2 Type 2242 SATA Solid-State Drive

Series 3 (Gen1), SATA-III (6Gb/s), pSLC

VSFCM4XI016G-V21

Product Brief - Rev. 1.3

See Datasheet for all details



Description

Virtium's StorFly® Series 3 M.2 XE class is solid-state drive (SSD) technology designed for the unique capacity and workload requirements of a broad range of embedded systems, including networking, industrial automation, medical systems, gaming equipment, point-of-sale terminals and data recorders. StorFly XE SSDs offer higher endurance designed to meet the critical storage demands of more read/write intensive applications as well as offering a smaller format and capacities suitable for OS boot and boot loader applications.

Features

Capacity

- 16 GB

pSLC NAND

Sequential Performance

- 128kB Sequential Read: 400 MB/s (QD: 32)
- 128kB Sequential Write: 280 MB/s (QD: 32)

Random Performance

- 4kB IOPS Read: up to 30,000
- 4kB IOPS Write: up to 42,000

Power: 3.3V±5%

- 128kB Sequential Read: 1.90 W
- 128kB Sequential Write: 1.76 W
- 4kB Random Read: 1.70 W
- 4kB Random Write: 1.55 W
- Idle: 0.65 W

Temperature Ranges

- Industrial: -40°C to 85°C
- Non-Operating: -40°C to 85°C

Reliability

- Advanced LDPC ECC
- MTBF: >2M hours

Endurance

- JESD219A: 250 TBW
- Sequential: 420 TBW

vtGuard® Power Fail Protection

- Integrated power fail protection
- Preserves static data in the event of power failure
- Cache/buffer contents restored at power-on

SMART Attribute Reporting

- Monitors device health
- Anticipates and predicts failures

Mechanical Dimensions

- M.2 Type 2242-D2-B-M Form Factor
- Length x Width x Height mm (inches)
42.00 (1.650) x 22.00 (0.866) x 2.60 (0.102)

Compliance

- SATA Revision 3.1 (SATA-III 6Gb/s)
- ATA/ATAPI-8 (ACS-3)
- FCC, CE, UL, RoHS, WEEE

Environmental (Non-operating)

- Humidity (non-condensing): 5% to 95%
- Shock: 1500G, half-sine wave, 0.5ms duration
- Vibration: 20G, 20 Hz to 2000 Hz

Data Security

- Integrated AES-256 encryption (data-at-rest)
- ATA Security Erase

StorKit® Software - visit virtium.com to learn more.

- vtView®, vtSecure™, vtTools™



Electrostatic Discharge (ESD) can damage this device. When handling the device, always wear a grounded wrist strap and use a static dissipative surface.



Any damage to the unit that occurs after its removal from the shipping package and ESD protective bag is the responsibility of the user.