StorFly® 2.5-Inch SATA Solid-State Drive

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

VSFB25PI256G-V11

Product Brief - Rev. 1.0
See Datasheet for all details

Description

Virtium's StorFly Series 6 2.5" is high-performance SATA-III 6Gb/s embedded 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 monitoring and gaming equipment, point-of-sale terminals and data recorders.

Features

Capacity
- 256 GB

SLC NAND

Sequential Performance
- 128kB Sequential Read: 540 MB/s (QD: 32)
- 128kB Sequential Write: 450 MB/s (QD: 32)

Random Performance
- 4kB IOPS Read: up to 75,000 (QD: 32)
- 4kB IOPS Write: up to 73,000 (QD: 32)

Power: 5.0V±10%
- 128kB Sequential Read: 2.68 W
- 128kB Sequential Write: 3.26 W
- 4kB Random Read: 2.15 W
- 4kB Random Write: 2.78 W
- Idle: 0.42 W

Temperature Ranges
- Industrial: -40ºC to 85ºC
- Non-Operating: -40ºC to 85ºC

Reliability
- Advanced LDPC ECC
- MTBF: >2M hours

Endurance
- JESD219A: 5,274 TBW
- Sequential: 25,040 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
- 2.5-Inch Form Factor
- Length x Width x Height mm (inches)
  100.5 (3.96) x 69.85 (2.75) x 7.0 (0.275)

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)
- Crypto Erase
- TCG/ Opal 2.0-compliant SED[1]

StorKit™ Software - visit virtium.com to learn more.
- vtView®, vtSecure™, vtTools™

Note: (1) Available in parts with -T part number extension

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.