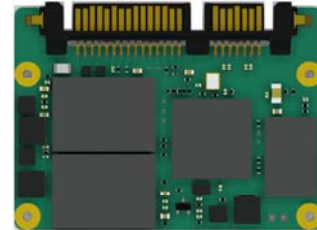![Virtium - Solid State Storage and Memory]

StorFly® 205 SlimSATA Solid-State Drive

Series 6 (Gen2), SATA-III (6Gb/s), 3D TLC

VSF205CI480G-V11

Product Brief - Rev. 1.1
See Datasheet for all details

Description

Virtium's StorFly® Series 6 SlimSATA 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
- 480 GB

3D TLC NAND

Sequential Performance
- 128kB Sequential Read: 550 MB/s (QD: 32)
- 128kB Sequential Write: 470 MB/s (QD: 32)

Random Performance
- 4kB IOPS Read: up to 77,000 (QD: 32)
- 4kB IOPS Write: up to 69,000 (QD: 32)

Power: 5.0V±10%
- 128kB Sequential Read: 2.60 W
- 128kB Sequential Write: 3.20 W
- 4kB Random Read: 2.80 W
- 4kB Random Write: 3.00 W
- Idle: 0.55 W

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

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

Endurance
- JESD219A: 438 TBW
- Sequential: 1,398 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
- SlimSATA (MO-297) Form Factor
- Length x Width x Height mm (inches)
  54.00 (2.13) x 39.00 (1.54) x 4.00 (0.16)

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.