

# StorFly<sup>®</sup> 305 mSATA Solid-State Drive

Series 6 (Gen2), SATA-III (6Gb/s), pSLC

# VSF305XI240G-V11

Product Brief - Rev. 1.0 See Datasheet for all details



# **Description**

Virtium's StorFly<sup>®</sup> Series 6 mSATA 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

### • 240 GB

#### pSLC NAND

#### Sequential Performance

- 128kB Sequential Read: 550 MB/s (QD: 32)
- 128kB Sequential Write: 485 MB/s (QD: 32)

#### Random Performance

- 4kB IOPS Read: up to 72,000 (QD: 32)
- 4kB IOPS Write: up to 82,000 (QD: 32)

#### Power: 3.3V±5%

- 128kB Sequential Read: 2.10 W
- 128kB Sequential Write: 2.30 W
- 4kB Random Read: 2.00 W
- 4kB Random Write: 2.40 W
- Idle: 0.68 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: 4,550 TBW
- Sequential: 9,300 TBW

#### vtGuard<sup>®</sup> 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**

- mSATA (MO-300) Form Factor
- Length x Width x Height mm (inches)
- 50.80 (2.00) x 29.85 (1.175) x 3.80 (0.150) 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<sup>(1)</sup>
- StorKit® Software visit virtium.com to learn more.
- vtView<sup>®</sup>, vtSecure<sup>™</sup>, vtTools<sup>™</sup>



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

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



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