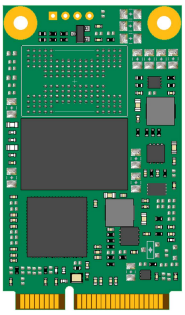
Virtium
Solid State Storage and Memory

# StorFly® 304 mSATA Solid-State Drive

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

VSF304CI120G-V11

Product Brief - Rev. 1.0
See Datasheet for all details



## Description

Virtium's StorFly Series 3 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**
- 120 GB

**3D TLC NAND**

**Sequential Performance**
- 128kB Sequential Read: 440 MB/s (QD: 32)
- 128kB Sequential Write: 440 MB/s (QD: 32)

**Power: 3.3V±5%**
- 128kB Sequential Read: 1.90 W
- 128kB Sequential Write: 1.90 W
- Idle: 1.45 W

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

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

**Endurance**
- JESD219A: 103 TBW
- Sequential: 165 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**
- mSATA (MO-300) Form Factor
- Length x Width x Height mm (inches)
  50.80 (2.00) x 29.85 (1.175) 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.**