



## Datavideo 1TB SSD Drive

ProdCode: DATASATA1TB

SATA 1TB SSD Drive



[\[Download Images\]](#) (.zip file)

### Features

- SATA 1TB SSD Drive
- Capacity: 1,000 GB (1 GB=1 Billion byte by IDEMA)
  - \* Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise)
- Form Factor: 2.5 inch
- Interface: SATA 6 Gb/s Interface, compatible with SATA 3 Gb/s & SATA 1.5 Gb/s interface
- Dimension (WxHxD): 100 X 69.85 X 6.8 (mm)
- Weight: Approx. 45.0g Weight
- Storage Memory: Samsung V-NAND 3bit MLC
- Controller: Samsung MKX Controller
- Cache Memory: Samsung 1 GB Low Power DDR4 SDRAM

### Performance

- Sequential Read: Up to 560 MB/s Sequential Read
  - \* Performance may vary based on system hardware & configuration
- Sequential Write: Up to 530 MB/s Sequential Write
  - \* Performance may vary based on system hardware & configuration
  - \*\* Measured with Intelligent TurboWrite technology being activated

- Random Read (4 KB, QD32): Up to 98,000 IOPS Random Read
  - \* Performance may vary based on system hardware & configuration
  - \*\* Measured with Intelligent TurboWrite technology being activated
- Random Write (4KB, QD32): Up to 88,000 IOPS Random Write
  - \* Performance may vary based on system hardware & configuration
  - \*\* Measured with Intelligent TurboWrite technology being activated
- Random Read (4 KB, QD1): Up to 13,000 IOPS Random Read
  - \* Performance may vary based on system hardware & configuration
  - \*\* Measured with Intelligent TurboWrite technology being activated
- Random Write (4 KB, QD1): Up to 36,000 IOPS Random Write
  - \* Performance may vary based on system hardware & configuration
  - \*\* Measured with Intelligent TurboWrite technology being activated

## Environment

- Average Power Consumption (system level): Average: 2.5 W
  - \*Maximum: 4.0 W (Burst mode)\* Actual power consumption may vary depending on system hardware & configuration
- Power consumption (Idle): Max. 30 mW
  - \* Actual power consumption may vary depending on system hardware & configuration
- Allowable Voltage: 5V  $\pm$  5% Allowable voltage
- Reliability (MTBF): 1.5 Million Hours Reliability (MTBF)
- Operating Temperature: 0 - 70 °C Operating Temperature
- Shock: 1,500 G & 0.5 ms (Half sine)



