SSD KINGSTON SSD series DC3000ME 3.84TB NVMe NAND flash technology 3D TLC Write speed 5800 MBytes/sec Read speed 14000 MBytes/sec Form Factor U.2 TBW 7.008 TB MTBF 2000000 hours SEDC3000ME/3T8

Model: SEDC3000ME/3T8

Manufacturer: KINGSTON

EAN: 740617347876

Product Code: 311298

R40,803

PCIe 5.0 NVMe U.2 for Server Applications

Kingston’s DC3000ME U.2 data center SSD features a high-speed PCIe 5.0 NVMe interface and utilizes 3D eTLC NAND, making it well suited for a wide range of server applications such as AI, HPC, OLTP, databases, cloud infrastructure and edge computing. DC3000ME includes on-board power loss protection to safeguard data in the event of sudden power loss and AES 256-bit encryption for ultimate data security. DC3000ME utilizes the latest high-speed PCIe 5.0 interface and is backward-compatible with PCIe 4.0 servers and backplanes. Like all of Kingston’s data center SSDs, DC3000ME is designed to deliver I/O consistency and low latency as the key design criteria that system integrators, hyperscale data centers and cloud service providers can depend on. DC3000ME is offered in 3.84TB, 7.68TB, 15.36TB and 30.72TB* capacities and is backed by Kingston's legendary technical support and a 5-year limited warranty.

Applications and workloads

DC3000ME is ideal for running a wide range of server applications and workloads including:

- AI
- HPC
- Cloud services
- Edge computing
- Software defined storage
- RAID
- General server use

Enterprise PCIe 5.0 performance

Delivers I/O consistency and low latency with sustained speeds of up to 14,000MB/s read and 2,800,000 read IOPS**.

Optimal storage and efficiency

High capacity options available offering an exceptional balance of consistent I/O delivery and ultra-high performance. Optimized to handle a wide range of server workloads efficiently.

On-board Power Loss Protection (PLP)

Enterprise-class protection to reduce possibility of data loss or corruption on ungraceful power fails including NVMe-MI 1.2b out-of-band management, end-to-end data protection, TCG Opal 2.0.

AES 256-bit encryption

Secure sensitive data with AES 256-bit hardware-based encryption and TCG Opal 2.0.

- Enterprise PCIe 5.0 performance
- Optimal storage and efficiency
- On-board power loss protection (PLP)
- AES 256-bit encryption

* Some of the listed capacity on a flash storage device is used for formatting and other functions and thus is not available for data storage. As such, the actual available capacity for data storage is less than what is listed on the products. For more information, go to Kingston’s Flash Guide at kingston.com/flashguide.
** Performance measurement as defined by SNIA Solid State Storage Performance Test Specification Enterprise v1.1; Drive write cache enabled; NVMe power state 0; Sequential workloads measured using FIO with queue depth of 32; Random Read workloads using FIO with queue depth of 128 based on 4K sector size; Random Write workloads measured using FIO with queue depth of 128. Latency values measured with random workloads using FIO, 4KB transfers, queue depth = 1.
*** Measurement taken once the workload has reached steady state but including all background activities required for normal operation and data reliability.
**** Based on 30.72TB capacity.
***** Total Bytes Written (TBW) & Drives Writes Per Day (DWPD) derived from the JEDEC Enterprise Workload (JESD219A).
****** Limited warranty based on 5 years or when the usage of an NVMe SSD as indicated by Kingston’s implementation of the Health attribute “Percentage Used” reaches or exceeds a normalized value of one hundred (100) as indicated by the Kingston SSD Manager (kingston.com/SSDManager). For NVMe SSDs, a new unused product will show a Percentage Used value of 0, whereas a product that reaches it warranty limit will show a Percentage Used value of

greater than or equal to one hundred (100).

Summary: Kingston Technology 3.84TB DC3000ME U.2 PCIe 5.0 NVMe TCG Opal Enterprise SSD. SSD capacity: 3.84 TB, SSD form factor: U.2, Read speed: 14000 MB/s, Write speed: 5800 MB/s, Component for: Server | Vendor Homepage: https://www.kingston.com/en | Component for: Server | Hardware encryption: Yes | Interface: PCI Express 5.0 | Market segment: Server | Mean time between failures (MTBF): 2000000 | Memory type: 3D eTLC | NVMe: Yes | Power loss protection: Yes | Random read (4KB): 2700000 | Random write (4KB): 300000 | Read latency: 70 | Read speed: 14000 | Security algorithms: 256-bit AES/TCG Opal 2.0 | SSD capacity: 3840 | SSD form factor: U.2 | TBW rating: 7008 | Write latency: 10 | Write speed: 5800 | Power consumption (idle): 8 | Power consumption (read): 8.2 | Power consumption (write): 24 | Depth: 100.5 | Height: 14.8 | Weight: 146.2 | Width: 69.8 | Package depth: 16.76 | Package height: 184.15 | Package weight: 180.44 | Package width: 129.54 | Non-operating vibration: 10 | Operating temperature (T-T): 0 - 70 | Master (outer) case gross weight: 1127.05 | Master (outer) case height: 69.85 | Master (outer) case length: 203.2 | Master (outer) case width: 135.89 | Products per master (outer) case: 6 | Model: SEDC3000ME/3T8 | SSD series: DC3000ME | Units per Pallet: 0 | Units per Shipping Box: 6 | Unit Calculated Volume: 0.0003267 | Unit Calculated Weight: 0.183