

KC3000 PCIe 4.0 NVMe M.2 SSD

High-performance storage for desktop and laptop PCs

Kingston KC3000 PCIe 4.0 NVMe M.2 SSD delivers next-level performance using the latest Gen 4x4 NVMe controller and 3D TLC NAND. Upgrade the storage and reliability of your system to keep up with demanding workloads and experience better performance with software applications such as 3D rendering and 4K+ content creation. With formidable speeds of up to 7,000MB/s¹ read/write, it ensures improved workflow in high-performance desktop and laptop PCs, making it ideal for power users who require the fastest speeds on the market.

The compact M.2 2280 design fits seamlessly into motherboards and gives greater flexibility where high-power users appreciate responsiveness and superior loading times.

Full capacities available from $512GB-4096GB^2$ to meet your data storage requirements.

- PCIe 4.0 NVMe high performance
- Upgrade with full capacities up to 4096GB²
- Compact M.2 2280 form factor
- Low-profile graphene aluminium heat spreader

FEATURES / BENEFITS

PCIe 4.0 NVMe technology — Master intensive applications with speeds of up to 7,000/7,000MB/s¹ read/write.

Store more — Upgrade and manage storage with full capacities of up to 4096GB².

SPECIFICATIONS

Form factor M.2 2280

Interface PCIe 4.0 x4 NVMe

Capacities²

512GB, 1024GB, 2048GB, 4096GB

Controller Phison E18

NAND 3D TLC

Sequential read/write¹

512GB – 7,000/3,900MB/s 1024GB – 7,000/6,000MB/s 2048GB – 7,000/7,000MB/s 4096GB – 7,000/7,000MB/s

Random 4K read/write¹

512GB – up to 450,000/900,000 IOPS 1024GB – up to 900,000/1,000,000 IOPS 2048GB – up to 1,000,000/1,000,000 IOPS 4096GB – up to 1,000,000/1,000,000 IOPS

Total bytes written (TBW)³

512GB - 400TBW 1024GB - 800TBW 2048GB - 1.6PBW 4096GB - 3.2PBW

Power Consumption

512 GB-50 mW idle / 0.34 W avg / 2.7 W (MAX) read / 4.1 W (MAX) write 1024 GB-50 mW idle / 0.33 W avg / 2.8 W (MAX) read / 6.3 W (MAX) write 2048 GB-50 mW idle / 0.36 W avg / 2.8 W (MAX) read / 9.9 W (MAX) write 4096 GB-50 mW idle / 0.36 W avg / 2.7 W (MAX) read / 10.2 W (MAX) write with the second s

Storage temperature

-40°C~85°C

Operating temperature 0°C~70°C

Dimensions 80mm x 22mm x 2.21mm (512GB-1024GB) 80mm x 22mm x 3.5mm (2048GB-4096GB)

Weight 512GB-1024GB – 7g 2048GB-4096GB – 9.7g

Vibration operating 2.17G peak (7-800Hz)

Vibration non-operating

20G peak (20-1000Hz)

Greater flexibility — Compact M.2 design fits easily into small-form-factor (SFF) systems, desktops and laptop PCs.

Low-profile graphene aluminium heat spreader — Exceptional thermal dissipation keeps your drive cool with maximum performance.

MTBF

2,000,000 hours Warranty/support⁴

limited 5-year warranty with free technical support



KINGSTON PART NUMBERS

KC3000 SSD	
SKC3000S/512G	
SKC3000S/1024G	
SKC3000D/2048G	
SKC3000D/4096G	

This SSD is designed for use in desktop and notebook computer workloads and is not intended for server environments.

1. Based on "out-of-box performance" using a PCIe 4.0 motherboard. Speed may vary due to host hardware, software and usage.

 Some of the listed capacity on a flash storage device is used for formatting and other functions and is thus 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 Memory Guide at kingston.com/flashguide.

- 3. Total Bytes Written (TBW) is derived from the JEDEC Client Workload (JESD219A)
- 4. Limited warranty based on 5 years or "Percentage Used", which can be found using 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 its warranty limit will show a Percentage Used value of greater than or equal to one hundred (100). See Kingston.com/wa for details.



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