KC2000 NVMe PCIe SSD

kingston.com/ssd

Superior NVMe speeds, ultimate flexibility

Kingston's KC2000 NVMe PCIe SSD delivers powerful performance using the latest Gen 3.0 x 4 controller and 96-layer 3D TLC NAND. With read/write speeds of up to 3,200/2,200MB/s[1], KC2000 delivers outstanding endurance and improves the workflow in desktop, workstation and high-performance computing (HPC) systems. The compact M.2 design gives greater flexibility, increasing storage but also saving space.

Available in capacities from 250GB–2TB[2] to meet your system's needs. KC2000 is a self-encrypting drive that supports end-to-end data protection using XTS-AES 256 bit hardware-based encryption and allows the use of independent software vendors with TCG Opal 2.0 security management solutions, such as Symantec™, McAfee™ and WinMagic®. KC2000 also has built-in Microsoft eDrive support, a security storage specification for use with BitLocker.

- Incredible NVMe PCIe performance
- Supports a full-security suite (TCG Opal 2.0, XTS-AES 256 bit, eDrive)
- Ideal for desktop, workstation and high-performance computing (HPC) systems
- Upgrade your PC with capacities of up to 2TB[2]

Features/specs on reverse ››

KC2000 NVMe PCIe SSD

FEATURES/ BENEFITS

> **Incredible NVMe PCIe performance** — Using the latest Gen 3.0 x 4 controller, reach speeds of up to 3,200/2,200MB/s[1].

> **Full-security suite** — Protect and secure your data with Kingston's self-encrypting drive.

> **Optimal systems** — Ideal for desktop, workstation and high-performance computing (HPC) systems.

> **Multiple capacities** — Upgrade your PC with capacities of up to 2TB[2].

SPECIFICATIONS

> **Form Factor** M.2 2280

> **Interface** NVMe™ PCIe Gen 3.0 x 4 lanes

> **Capacities[2]** 250GB, 500GB, 1TB, 2TB

> **Controller** SMI 2262EN

> **NAND** 96-layer 3D TLC

> **Encrypted** XTS-AES 256 bit encryption

> **Sequential read/write[1]**
250GB – up to 3,000/1,100MB/s 500GB – up to 3,000/2,000MB/s
1TB – up to 3,200/2,200MB/s 2TB – up to 3,200/2,200MB/s

> **Random 4K read/write[1]**
250GB – up to 350,000/200,000 IOPS
500GB – up to 350,000/250,000 IOPS
1TB – up to 350,000/275,000 IOPS
2TB – up to 250,000/250,000 IOPS

> **Total Bytes Written (TBW)[3]**
250GB – 150TBW 500GB – 300TBW
1TB – 600TBW 2TB – 1.2PBW

> **Power consumption**
.003W idle / .2W avg / 2.1W (MAX) read / 7W (MAX) write

> **Storage temperature** -40°C~85°C

> **Operating temperature** 0°C~70°C

> **Dimensions** 80mm x 22mm x 3.5mm

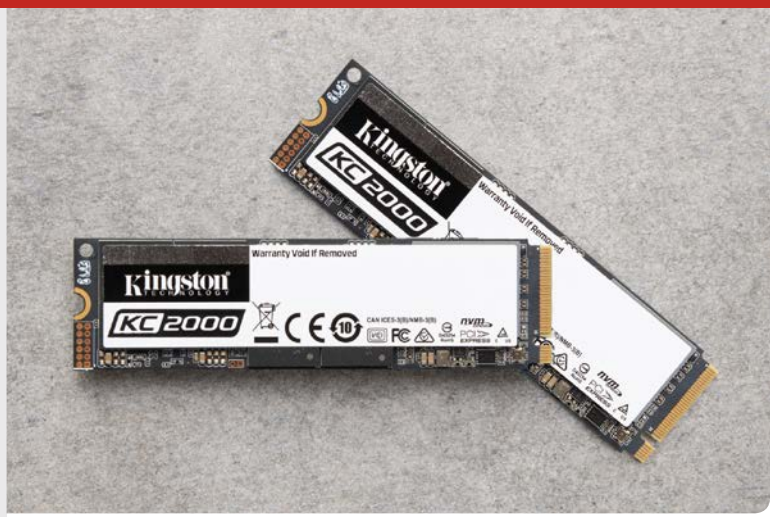
> **Weight**
250GB – 8g 500GB – 10g
1TB – 10g 2TB – 11g

> **Vibration operating** 2.17G peak (7-800Hz)

> **Vibration non-operating** 20G peak (20-1000Hz)

> **MTBF** 2,000,000

> **Warranty/Support[4]**
limited 5-year warranty with free technical support



PART NUMBERS

SKC2000M8/250G

SKC2000M8/500G

SKC2000M8/1000G

SKC2000M8/2000G

1. Based on "out-of-box performance" using a PCIe 3.0 motherboard. Speed may vary due to host hardware, software and usage. IOMETER random 4K read/write is based on an 8GB partition.

2. 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.