Kingston’s A2000 NVMe PCIe SSD is an affordable storage solution with impressive performance. Boasting read/write speeds of up to 2,200/2,000MB/s\(^1\), A2000 delivers 3x the performance of a SATA SSD with quicker loading times, less power consumption and lower heat. A2000 SSD is designed for the entry-level user, purpose-built system manufacturer, DIY system builder and those seeking to upgrade their PC. With a single-sided slim M.2 design, A2000 works to its full potential when installed in an Ultrabook or a small-form-factor PC (SFF PC) system.

Available in capacities from 250GB–1TB\(^1\) to meet your system’s needs. A2000 is a self-encrypting drive that supports end-to-end data protection using 256-bit XTS-AES hardware-based encryption, and allows the use of independent software vendors with TCG Opal 2.0 security management solutions such as Symantec™, McAfee™, WinMagic® and others. A2000 also has built-in eDrive support, a security storage specification for use with BitLocker.

- NVMe PCIe performance at a fraction of the cost
- Supports a full-security suite (TCG Opal, XTS-AES 256-bit, eDrive)
- Ideal for Ultrabooks and small-form-factor PC (SFF PC) systems
- Upgrade your PC with up to 1TB\(^2\)
FEATURES/ BENEFITS

> **NVMe PCIe performance at a fraction of the cost** — A2000 is an affordable solution with impressive read/write speeds of up to 2,200/2,000MB/s¹.

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

> **Optimal systems** — Ideal for Ultrabooks and small-form-factor PC (SFF PC) systems.

> **Multiple capacities** — Upgrade your PC with up to 1TB².

SPECIFICATIONS

> **Form factor** M.2 2280

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

> **Capacities²** 250GB, 500GB, 1TB

> **NAND** 3D

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

> **Sequential read/write¹**

250GB – up to 2,000/1,100MB/s

500GB – up to 2,200/2,000MB/s

1TB – up to 2,200/2,000MB/s

> **Random 4K read/write³**

250GB – up to 150,000/180,000 IOPS

500GB – up to 180,000/200,000 IOPS

1TB – up to 250,000/220,000 IOPS

> **Total Bytes Written (TBW)³**

250GB – 150TBW

500GB – 350TBW

1TB – 600TBW

> **Power consumption**

.0032W idle / .08W avg / 1.7W (MAX) read / 4.5W (MAX) write

> **Storage temperature** -40°C~85°C

> **Operating temperature** 0°C~70°C

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

> **Weight**

250GB – 6.6g

500GB – 6.8g

1TB – 6.6g

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

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

> **MTBF** 2,000,000

> **Warranty/Support⁴**

limited 5-year warranty with free technical support

PART NUMBERS

SA2000M8/250G

SA2000M8/500G

SA2000M8/1000G

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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.