A2000 NVMe PCIe SSD

SPECIFICATIONS

> **Form Factor** M.2 2280

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

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

> **Encrypted** AES 256-bit Encryption

> **Sequential Read/Write**[1] 250GB — up to 2,200/1,000MB/s
500GB — up to 2,200/1,500MB/s
1TB — up to 2,200/1,900MB/s

> **Random Read/Write**[1] up to 220,000/240,000 IOPS

> **Total Bytes Written (TBW)**[4] 250GB — 150TBW
500GB — 300TBW
1TB — 720TBW

> **Power Consumption** .015W Idle / .08W Avg / .5 (MAX) Read / 1W (MAX) Write

> **Storage Temperature** -40°C to 85°C

> **Operating Temperature** 0°C to 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/support**[3] Limited 5-year warranty with free technical support
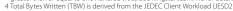

PART NUMBERS

SA2000M8/250G 250GB

SA2000M8/500G 500GB

SA2000M8/1000G 1TB

The cryptographic functionalities, mentioned in the present section, are implemented in the firmware of the product. The cryptographic functions of the firmware can only be changed during the manufacturing process and cannot be changed by a regular user. The product is designed for installation by the user by following the step-by-step instruction from the installation user guide, supplied with the product, and, thereby, can be used without further substantial support of the supplier.

The 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 SATA Rev. 3.0 motherboard. Speed may vary due to host hardware, software and usage. IOMETER Random 4k Random Read/Write is based on 8GB partition.
2 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 memory Guide at kingston.com/flashguide.
3 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.
4 Total Bytes Written (TBW) is derived from the JEDEC Client Workload (JESD219A).

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