KC2500 NVMe PCIe SSD

FEATURES/BENEFITS

- > NVMe PCIe performance Using the latest Gen 3.0 x 4 controller, reach speeds of up to 3,200/2,200MB/s¹
- > Full-security suite Protect and secure your data with Kingston's selfencrypting drive.
- > Optimal systems Ideal for desktop, workstation and high-performance computing (HPC) systems.
- > Multiple capacities Upgrade your PC with capacities of up to 2TB².

SPECIFICATIONS

- > Form Factor M.2 2280
- > Interface NVMe[™] PCIe Gen 3.0 x 4 Lanes
- > Capacities² 250GB, 500GB, 1TB, 2TB
- > Controller SMI 2262EN
- > NAND 96-layer 3D TLC
- > Encrypted XTS-AES 256 bit
- > Sequential Read/Write¹ 250GB — up to 3,500/1,200MB/s
 - 500GB up to 3,500/2,500MB/s 1TB — up to 3,500/2,900MB/s 2TB — up to 3,500/2,900MB/s
- > Random Read/Write¹
- 250GB up to 375,000/300,000 IOPS 500GB - up to 375,000/300,000 IOPS 1TB — up to 375,000/300,000 IOPS 2TB — up to 375,000/300,000 IOPS
- > Total Bytes Written (TBW)³ 250GB 150TBW
 - 500GB 300TBW 1TB - 600TBW 2TB - 1.2PBW
- > Power Consumption .003W Idle / .2W Avg / 2.1 (MAX) Read / 7W (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 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 hours
- > Warranty/support⁴ Limited 5-year warranty with free technical support



PART NUMBERS

SKC2500M8/250G SKC2500M8/500G SKC2500M8/1000G SKC2500M8/2000G



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 byfollowing 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

- 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.
 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 the storage flash memory Guide at the storage.
- 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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