Q500 SATA SSD

in 2.5" Form Factor

Kingston's Q500 solid-state drive dramatically improves the responsiveness of your existing system with incredible boot, loading and transfer times compared to mechanical hard drives. Powered by a latest gen controller for read and write speeds up to 500MB/s and 450MB/s[1], this SSD is 10x faster than a traditional hard drive[1] for higher performance, ultra-responsive multi-tasking and an overall faster system.

Also more reliable and durable than a hard drive, Q500 is available in multiple capacities from 240GB-960GB[2] to give you all the space you need for applications, videos, photos and other important documents.

- Fast start-up, loading and file transfers
- More reliable and durable than a hard drive
- Multiple capacities with space for applications or a hard drive replacement

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Key Features

- **10x faster than a hard drive[3]**

  With incredible read/write speeds the Q500 SSD will not only increase performance but can also be used to breathe new life into older systems.

- **Rugged**

  Q500 is shock- and vibration-resistant for rugged reliability when used in notebooks and other mobile computing devices.

- **Multiple capacities**

  Available in 240GB, 480GB, and 960GB capacities[2], Q500 is designed to suit anyone's needs.

- **Ideal for desktops and notebooks**

  Q500 has a 7mm form factor to fit in a wider array of systems. It's ideal for slimmer notebooks and in systems with limited available space.

Specifications

Form factor	2.5"
Interface	SATA Rev. 3.0 (6Gb/s) – with backwards compatibility to SATA Rev. 2.0 (3Gb/s)
Capacities[2]	240GB, 480GB, 960GB
Baseline Performance[1]	
Data Transfer (ATTO)	240GB — up to 500MB/s Read and 350MB/s Write 480GB — up to 500MB/s Read and 450MB/s Write 960GB — up to 500MB/s Read and 450MB/s Write
Power Consumption	0.195W Idle / 0.279W Avg / 0.642W (MAX) Read / 1.535W (MAX) Write
Storage temperature	-40°C~85°C
Operating temperature	0°C~70°C

Dimensions	100.0mm x 69.9mm x 7.0mm
Weight	41g
Vibration operating	2.17G Peak (7–800Hz)
Vibration non-operating	20G Peak (10–2000Hz)
Life expectancy	2 million hours MTBF
Warranty/support[4]	Limited 3-year warranty with free technical support
Total Bytes Written (TBW)[5]	240GB: 80TB 480GB: 160TB 960GB: 300TB

Part Numbers

SQ500S37

SQ500S37/240G
SQ500S37/480G
SQ500S37/960G

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Product Image

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 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.

3. Based on "out-of-box performance" using a SATA Rev. 3.0 motherboard. Speed may vary due to host hardware, software and usage.

4. Limited warranty based on 3 years or SSD "Life Remaining", which can be found using the Kingston SSD Manager. A new, unused product will show a wear indicator value of one hundred (100), whereas a product that has reached its endurance limit of program erase cycles will show a wear indicator value of one (1). See kingston.com/wa for details.

5. Total Bytes Written (TBW) is derived from the JEDEC Workload (JESD219A)