An encrypted solution for every user.

Kingston's UV500 family of solid-state drives dramatically improves the responsiveness of your existing system with incredible boot, loading, and transfer times compared to mechanical hard drives. Powered by a Marvell 88SS1074 controller combined with 3D NAND Flash for read and write speeds up to 520MB/s and 500MB/s¹, this SSD is 10X faster than a traditional hard drive for better performance, ultra-responsive multi-tasking, and an overall faster system. UV500 provides end-to-end data protection, supports 256-bit AES Hardware-based encryption, and TCG Opal 2.0 security management solutions.

More reliable and durable than a hard drive, UV500 is built with NAND Flash semiconductor memory. There are no moving parts, making it far less likely to fail than a mechanical hard drive. It is also cooler and quieter, and its shock and vibration resistance makes it ideal for notebooks and other mobile computing devices.

UV500 is available in multiple capacities from 120GB–1.92TB,² so you can buy one to use as a boot drive, or take advantage of the larger capacities to store videos, photos, and host your most frequently used applications.

- > 10X faster than a 7200RPM hard drive1
- > AES 256-bit Hardware Encryption Self-Encrypting Drive (SED) and TCG Opal 2.0
- Available in multiple form factors (2.5"/M.2/mSATA)
- > Multiple capacities up to 1.92TB²







Features/specs on reverse >>



FEATURES/BENEFITS

- > Ideal for desktops and notebooks Comes in multiple form factors (2.5"/M.2/mSATA) to fit in a wider array of systems. It is ideal for slimmer notebooks and systems with limited space.
- > Multiple capacities Available in a range of capacities up to 1.92TB² to meet your data storage requirements.
- > Encrypted protection Protect sensitive data with support for 256-bit AES Hardware-based Encryption and TCG Opal 2.0.
- > 10X faster than a hard drive1 With incredible read/write speeds the UV500 will not only increase performance, but can also breathe new life into older systems.



- > Form factor 2.5"/M.2 2280/mSATA
- > Interface SATA Rev. 3.0 (6Gb/s) with backwards compatibility to SATA Rev. 2.0 (3Gb/s)
- > Capacities² 120GB, 240GB, 480GB, 960GB, 1.92TB
- > Controller Marvell 88SS1074
- > NAND 3D TLC

> Sequential Read/Write¹

120GB — up to 520/320MB/s 240GB — up to 520/500MB/s 480GB — up to 520/500MB/s

960GB — up to 520/500MB/s 1.92TB — up to 520/500MB/s

> Maximum 4K Read/Write1

120GB — up to 79,000/18,000 IOPS 240GB — up to 79,000/25,000 IOPS

480GB — up to 79,000/35,000 IOPS

960GB — up to 79,000/45,000 IOPS 1.92TB — up to 79,000/50,000 IOPS

> Power Consumption

0.195W Idle / 0.5W Avg / 1.17W (MAX) Read / 2.32 W (MAX) Write

> **Dimensions** 100.1mm x 69.85mm x 7mm (2.5") 80mm x 22mm x 3.5mm (M.2)

50.8mm x 29.85mm x 4.85mm (mSATA)

> Operating temperature 0°C~70°C

> Storage temperature -40°C~85°C

> **Weight** 120GB-480GB — 41g (2.5") 960GB — 57g (2.5") 1.92TB — 52g (2.5")

120GB — 6.6g (M.2) 240GB — 6.7g (M.2) 480GB — 7.7g (M.2)

960GB — 7.8g (M.2) 120GB — 6.2g (mSATA) 240GB–480GB — 6.7g (mSATA)

- > Vibration operating 2.17G Peak (7–800Hz)
- > Vibration non-operating 20G Peak (10–2000Hz)
- > Life expectancy 1 million hours MTBF
- > Warranty/support³ Limited 5-year warranty with free technical support

> Total Bytes Written (TBW)4 120GB — 60TB

240GB — 100TB

480GB — 200TB

960GB — 480TB

1.92TB — 800TB



KINGSTON PART NUMBERS

SUV500/120G Stand-alone drive

SUV500/240G Stand-alone drive

SUV500/480G Stand-alone drive

SUV500/960G Stand-alone drive

SUV500/1920G Stand-alone drive

SUV500B/120G Desktop/Notebook upgrade kit

SUV500B/240G Desktop/Notebook upgrade kit

SUV500B/480G Desktop/Notebook upgrade kit

SUV500B/960G Desktop/Notebook upgrade kit

SUV500B/1920G Desktop/Notebook upgrade kit

SUV500M8/120G M.2

SUV500M8/240G M.2

SUV500M8/480G M.2

SUV500M8/960G M.2

SUV500MS/120G mSATA

SUV500MS/240G mSATA

SUV500MS/480G mSATA

DESKTOP/NOTEBOOK UPGRADE KIT INCLUDES:

- 2.5" SSD
- 2.5" USB Enclosure
- 3.5" Bracket and Mounting Screws
- SATA Power and Data Cable
- 7mm to 9.5mm Adapter
- Hard Drive Cloning Software Download Coupon⁵

This SSD is designed for use in desktop and notebook computer workloads, and is not intended for

- 1 Based on "out-of-box performance" using a SATA Rev 3.0 / PCle 3.0 motherboard. Speed may vary due
- to host hardware, software, and usage. IOMETER Random 4K 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 Guide at
- What is like to the products. For information, go to kingston is has route at kingston. Com/flashguide.

 3 Limited warranty based on 5 years or "SSD Life Remaining" which can be found using the Kingston SSD Manager (Kingston.com/SSDManager). 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.

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

 5 Operating system software support: Windows* 10, 8,1,8,7 (SP1).



