Kingston has
the right SSD for your needs.

Consumer

For notebook or desktop users, switching to an SSD or adding it to your system is simple with upgrade kits that include everything you need, as well as software to clone your files and Operating System in minutes.





SSD	Q500	UV500	A2000	KC600	KC2500
Application	Dramatically improves the responsiveness of your existing system with incredible boot, loading and transfer times compared to mechanical hard drives.	Provides end-to-end data protection using 256-bit AES Hardware-based encryption and support for TCG Opal 2.0 security management solutions.	Entry-level PCIe NVMe™ solution with a single-sided M.2 22x80mm design.	Provides remarkable performance and optimized to provide functional system responsiveness with incredible boot, loading, and transfer times.	Delivers powerful performance using the latest Gen 3.0 x 4 controller and 96-layer 3D TLC NAND.
Capacity[1]	120GB, 240GB, 480GB, 960GB	120GB, 240GB, 480GB	250GB, 500GB, 1TB	256GB, 512GB, 1TB, 2TB	250GB, 500GB, 1TB, 2TB
Controller	2Ch[2]	Marvell 88SS1074	Phison E8	SM2259	SMI 2262EN
NAND		3D TLC	3D	3D TLC	96-layer 3D TLC
Interface	SATA Rev. 3.0	SATA Rev. 3.0	NVMe PCIe Gen 3.0 x 4 lanes	SATA Rev. 3.0	NVMe PCIe Gen 3.0 x 4 lanes
Form Factor	2.5" – 7mm	mSATA	M.2 2280	2.5"	M.2 2280
Sequential Data Transfer Read/Write	120GB: 500MB/s / 320MB/s 240GB: 500MB/s / 350MB/s 480GB-960GB: 500MB/s / 450MB/s	120GB: 520MB/s / 320MB/s 240GB: 520MB/s / 500MB/s 480GB: 520MB/s / 500MB/s	250GB: up to 2,000/1,100 MB/s 500GB: up to 2,200/2,000 MB/s 1TB: up to 2,200/2,000 MB/s	256GB: 550MB/s / 500MB/s 512GB: 550MB/s / 520MB/s 1TB: 550MB/s / 520MB/s 2TB: 550MB/s / 520MB/s	250GB: 3,500MB/s / 1,200MB/s 500GB: 3,500MB/s / 2,500MB/s 1TB: 3,500MB/s / 2,900MB/s 2TB: 3,500MB/s / 2,900MB/s
IOMETER Maximum Random 4k Read/Write[4]		120GB: 79,000/18,000 IOPS 240GB: 79,000/25,000 IOPS 480GB: 79,000/35,000 IOPS		Up to 90,000/80,000 IOPS	
Warranty	Limited 3 years[5]	Limited 5 years[6]	Limited 5 years[6]	Limited 5 years[6]	Limited 5 years[6]
Kingston Part Numbers	**Stand-alone Drives** SQ500S37/120G SQ500S37/240G SQ500S37/480G SQ500S37/960G	**mSATA** SUV500MS/120G SUV500MS/240G SUV500MS/480G	**M.2** SA2000M8/250G SA2000M8/500G SA2000M8/1000G	**Stand-alone Drives** SKC600/256G SKC600/512G SKC600/1024G SKC600/2048G	**M.2** SKC2500M8/250G SKC2500M8/500G SKC2500M8/1000G SKC2500M8/2000G
Accessory Kit Contents			**M.2** M.2 SSD Hard Drive Cloning Software[7]	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 Software5	

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Business/Enterprise

For organizations large or small, solid-state drives can extend the lifecycle and dramatically improve system performance with higher speeds, greater stability and legendary Kingston reliability. From booting up to opening applications, SSDs significantly cuts down waiting time. Enterprise data centers gain performance, reliable Quality of Service (QoS), predictable low latency and consistent IO delivery.

SSD	DC450R	DC500R	DC500M	DC1000B	DC1000M
Application	A strategically optimized 6Gbps SATA SSD with a streamlined focused feature set for read-centric applications. Built to Kingston's strict QoS requirements to ensure performance consistency over a wide-range of read intensive and read caching workloads. It delivers I/O speeds and response times (latency) to ensure high levels of performance downstream at the user.	Data Center SSD for read-centric workloads designed with an increased quality of service (QoS), sustained performance user adjustable over-provisioning to improve random IOPS performance.	Data Center SSD for read-centric workloads designed with an increased quality of service (QoS), sustained performance user adjustable over-provisioning to improve random IOPS performance.	A high-performance M.2 (2280) NVMe PCIe SSD, Gen 3.0 x 4 with 96-layer 3D TLC NAND. DC1000B offers data centers a cost-effective boot drive designed for use in high-volume rack-mount as well as for purpose-built systems where a high-performance M.2 SSD with on-board power loss protection (PLP) is needed.	A high-performance U.2 NVMe PCIe SSD featuring high-storage capacity and best in-class enterprise performance. It offers a Gen 3.0 x4 PCIe NVMe interface enabling high throughput and low latency on standardized platforms. It delivers up to 540K IOPS of random read performance with 3GB/s of throughput.
Capacity[1]	480GB, 960GB, 1.92TB, 3.84TB, 7.68TB	480GB, 960GB, 1.92TB, 3.84TB, 7.68TB	480GB, 960GB, 1.92TB, 3.84TB	240GB, 480GB, 960GB	960GB, 1.92TB. 3.84TB, 7.68TB
Controller	Phison S12	Phison S12	Phison S12	Phison E12DC	Silicon Motion SM2270
NAND	96-layer 3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
Interface	PCIe NVMe Gen3 x4	SATA Rev. 3.0	SATA Rev. 3.0	PCIe NVMe Gen3 x4	PCIe NVMe Gen3 x4
Form Factor	M.2 2280	2.5"	2.5"	M.2 2280	U.2
Sequential Data Transfer Read/Write	480GB: 560MB/s / 510MB/s 960GB: 560MB/s / 530MB/s 1.92TB: 560MB/s / 530MB/s 3.84TB: 560MB/s / 525MB/s 7.68TB: 560MB/s / 504MB/s	480GB: 555MB/s / 500MB/s 960GB: 555MB/s / 525MB/s 1.92TB: 555MB/s / 525MB/s 3.84TB: 555MB/s / 520MB/s 7.68TB: 545MB/s / 490MB/s	480GB: 555MB/s / 500MB/s 960GB: 555MB/s / 525MB/s 1.92TB: 555MB/s / 525MB/s 3.84TB: 555MB/s / 520MB/s	240GB: 2,200MB/s / 290MB/s 480GB: 3,200MB/s / 565MB/s 960GB: 3,400MB/s / 925MB/s	960GB: 3,100MB/s / 1,330MB/s 1.92TB: 3,100MB/s / 2,600MB/s 3.84TB: 3,100MB/s / 2,700MB/s 7.68TB: 3,100MB/s / 2,800MB/s
Steady-State 4K Read Write[3]	480GB: 99,000/17,000 IOPS 960GB: 98,000/26,000 IOPS 1.92TB: 99,000/ 28,000 IOPS 3.84TB: 99,000/ 26,000 IOPS 7.68TB: 99,000 / 19,000 IOPS	480GB: 98,000/12,000 IOPS 960GB: 98,000/20,000 IOPS 1.92TB: 98,000/24,000 IOPS 3.84TB: 98,000/28,000 IOPS 7.68TB – 99,000/25,000 IOPS	480GB: 98,000/58,000 IOPS 960GB: 98,000/70,000 IOPS 1.92TB: 98,000/75,000 IOPS 3.84TB: 98,000/78,000 IOPS	240GB: 111,000/12,000 IOPS 480GB: 205,000/20,000 IOPS 960GB: 199,000/25,000 IOPS	960GB: 400,000/125,000 IOPS 1.92TB: 540,000/ 205,000 IOPS 3.84TB: 525,000/ 210,000 IOPS 7.68TB: 485,000 / 210,000 IOPS
Warranty	Limited 5 years[6]	Limited 5 years[6]	Limited 5 years[6]	Limited 5 years[6]	Limited 5 years[6]
Kingston Part Numbers	**Stand-alone Drives** SEDC450R/480G SEDC450R/960G SEDC450R/1920G SEDC450R/3840G SEDC450R/7680G	**Stand-alone Drives** SEDC500R/480G SEDC500R/960G SEDC500R/1920G SEDC500R/3840G SEDC500R/7680G	**Stand-alone Drives** SEDC500M/480G SEDC500M/960G SEDC500M/1920G SEDC500M/3840G	**Stand-alone Drives** SEDC1000BM8/240G SEDC1000BM8/480G SEDC1000BM8/960G	**Stand-alone Drives** SEDC1000M/960G SEDC1000M/1920G SEDC1000M/3840G SEDC1000M/7680G
Accessory Kit Contents					

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Business/Enterprise

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SSD	UV500	KC2500
Application	Provides end-to-end data protection using 256-bit AES Hardware-based encryption and support for TCG Opal 2.0 security management solutions.	Delivers powerful performance using the latest Gen 3.0 x 4 controller and 96-layer 3D TLC NAND.
Capacity[1]	120GB, 240GB, 480GB	250GB, 500GB, 1TB, 2TB
Controller	Marvell 88SS1074	SMI 2262EN
NAND	3D TLC	96-layer 3D TLC
Interface	SATA Rev. 3.0	NVMe PCIe Gen 3.0 x 4 lanes
Form Factor	mSATA	M.2 2280
Sequential Data Transfer Read/Write	120GB: 520MB/s / 320MB/s 240GB: 520MB/s / 500MB/s 480GB: 520MB/s / 500MB/s	250GB: 3,500MB/s / 1,200MB/s 500GB: 3,500MB/s / 2,500MB/s 1TB: 3,500MB/s / 2,900MB/s 2TB: 3,500MB/s / 2,900MB/s
IOMETER Maximum Random 4k Read/Write[4]	120GB: 79,000/18,000 IOPS 240GB: 79,000/25,000 IOPS 480GB: 79,000/35,000 IOPS	
Warranty	Limited 5 years[6]	Limited 5 years[6]
Kingston Part Numbers	**mSATA** SUV500MS/120G SUV500MS/240G SUV500MS/480G	**M.2** SKC2500M8/250G SKC2500M8/500G SKC2500M8/1000G SKC2500M8/2000G
Accessory Kit Contents		

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System Builder

For system builders, solid-state drives are ideal for non-PC, client PC or enthusiast applications. They're available in multiple form factors, including 2.5", caseless and mSATA.

SSD	UV500	A2000	KC600
Application	Provides end-to-end data protection using 256-bit AES Hardware-based encryption and support for TCG Opal 2.0 security management solutions.	Entry-level PCIe NVMe™ solution with a single-sided M.2 22x80mm design.	Provides remarkable performance and optimized to provide functional system responsiveness with incredible boot, loading, and transfer times.
Capacity[1]	120GB, 240GB, 480GB	250GB, 500GB, 1TB	256GB, 512GB, 1TB, 2TB
Controller	Marvell 88SS1074	Phison E8	SM2259
NAND	3D TLC	3D	3D TLC
Interface	SATA Rev. 3.0	NVMe PCIe Gen 3.0 x 4 lanes	SATA Rev. 3.0
Form Factor	mSATA	M.2 2280	2.5"
Sequential Data Transfer Read/Write	120GB: 520MB/s / 320MB/s 240GB: 520MB/s / 500MB/s 480GB: 520MB/s / 500MB/s	250GB: up to 2,000/1,100 MB/s 500GB: up to 2,200/2,000 MB/s 1TB: up to 2,200/2,000 MB/s	256GB: 550MB/s / 500MB/s 512GB: 550MB/s / 520MB/s 1TB: 550MB/s / 520MB/s 2TB: 550MB/s / 520MB/s
IOMETER Maximum Random 4k Read/Write[4]	120GB: 79,000/18,000 IOPS 240GB: 79,000/25,000 IOPS 480GB: 79,000/35,000 IOPS		Up to 90,000/80,000 IOPS
Warranty	Limited 5 years[6]	Limited 5 years[6]	Limited 5 years[6]
Kingston Part Numbers	**mSATA** SUV500MS/120G SUV500MS/240G SUV500MS/480G	SA2000M8/250G SA2000M8/500G SA2000M8/1000G	**Stand-alone Drives** SKC600/256G SKC600/512G SKC600/1024G SKC600/2048G
Accessory Kit Contents			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[6]

These SSDs are designed for use in desktop and notebook computer workloads and are not intended for server environments (except DCP1000).

1 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.

2 Controller model may vary

3 Performance based on random 4k read/write using FIO workload generator. Performance based on pre-conditioned drive to reach steady-state. Speed may vary due to host hardware, software and usage.

4 Based on "out-of-box performance." Speed may vary due to host hardware, software and usage.

5 Limited warranty based on 3 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.

6 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.

7 Operating system software support: Windows® 10, 8.1, 8

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