



SSDNOW

SSDNow KC100



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This SSD means business.

Kingston's business-equipped KC100 solid-state drive is based on the award-winning SandForce[®] second-generation SSD processor and features SATA Rev. 3.0 (6Gb/s) to deliver exceptional performance and speed. It's backwards compatible — install in your current SATA Rev. 2.0 systems, then use again when you get new SATA Rev. 3.0 systems to help future proof your investment.

KC100 comes with Data Integrity Protection featuring DuraClass™ and DuraWrite™ technology to optimize endurance, performance, data retention and power consumption, plus advanced wear leveling and monitoring, with Flash recycling and garbage collection to maximize consistent performance over the life of the drive.

KC100 offers Enterprise SMART attributes to monitor drive performance and RAISE™ to detect and correct nearly 1 quadrillion times more errors than other SSDs. It's self-encrypting, so your data is protected without draining host system resources.

For added peace of mind, KC100 is backed by a five-year warranty and legendary Kingston[®] reliability.

-
- > SandForce Driven
 - > SATA Rev. 3.0 (6Gb/s)
 - > Business-Equipped SSD

Features/specs on reverse >>



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FEATURES/BENEFITS

- > **Reliable** – five-year warranty, free technical support
- > **Endurance** – Data Integrity Protection featuring DuraClass™ Technology
- > **Dependable** – RAISE™ for advanced data reliability
- > **Secure** – self-encrypting drive
- > **Durable** – DuraWrite optimizes writes to extend endurance

SPECIFICATIONS

- > **Form factor** 2.5"
- > **Interface** SATA Rev. 3.0 (6Gb/s), SATA Rev. 2.0 (3Gb/s), SATA Rev. 1.0 (1.5Gb/s)
- > **Capacities**¹ 120GB, 240GB, 480GB
- > **Sequential Reads 6Gb/s**²
SATA Rev. 3.0 — 120GB & 240GB - 555MB/s; 480GB - 540MB/s
SATA Rev. 2.0 — 120GB, 240GB & 480GB - 280MB/s
- > **Sequential Writes 6Gb/s**
SATA Rev. 3.0 — 120GB & 240GB - 510MB/s; 480GB - 450MB/s
SATA Rev. 2.0 — 120GB, 240GB & 480GB - 260MB/s
- > **Sustained Random 4k Read/Write**³
120GB – 20,000/60,000 IOPS
240GB – 40,000/57,000 IOPS
480GB – 60,000/45,000 IOPS
- > **Max Random 4k Read/Write**
120GB – 87,000/70,000 IOPS
240GB – 87,000/58,000 IOPS
480GB – 75,000/47,000 IOPS
- > **Warranty/support** five-year warranty with free support
- > **Enterprise SMART Tools** Reliability Tracking, Usage Statistics, Life Remaining, Wear Leveling, Temperature, Drive Life Protection
- > **Power Consumption** 0.455 W (TYP) Idle / 1.6 W (TYP) Read / 2.05 W (TYP) Write
- > **Dimensions** 69.85mm x 100mm x 9.5mm
- > **Storage temperatures** -40 ~ 85°C
- > **Operating temperatures** 0 ~ 70°C
- > **Vibration operating** 2.17G
- > **Vibration non-operating** 20G
- > **MTBF** 1,000,000 Hrs
- > **Total Bytes Written (TBW)**⁴
120G: 160TB
240G: 320TB
480G: 640TB

Test System: ASRock P67 Motherboard, Intel Core i7 2600k 3.4GHz CPU, 8GB System Memory, NVIDIA GTX 460 Video Card. SSD tested as secondary drive with results based on "out-of-box" performance.



KINGSTON PART NUMBERS

- SKC100S3/120G (stand-alone drive)
- SKC100S3/240G (stand-alone drive)
- SKC100S3/480G (stand-alone drive)
- SKC100S3B/120G (upgrade bundle kit)
- SKC100S3B/240G (upgrade bundle kit)
- SKC100S3B/480G (upgrade bundle kit)

BUNDLES INCLUDE

- 2.5" SSD
- 2.5" USB Enclosure
- 3.5" brackets and mounting screws
- SATA power and data cable
- Hard drive cloning software⁵
- Installation guide

This SSD is designed for use in desktop and notebook computer workloads and is not intended for Server environments.

¹ Please note: 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/flash_memory_guide.

² Based on "out-of-box performance" with ATTO Disk Benchmark 2.41. Speed may vary due to host hardware, software and usage.

³ Based on "out-of-box performance" with IOMeter08.

⁴ Total Bytes Written (TBW) refers to how much total data can be written to an SSD for a given workload before the drive reaches its endurance limits.

⁵ Operating system software support: Windows® 7, Windows Vista® (SP2), Windows XP (SP3)

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