



SSDNow KC310



Think big, do more with SSD technology.

With 960GB of storage capacity, SSDNow KC310 is Kingston's largest business-class solid-state drive. A true HDD replacement, it's easy to transition to; now there are no trade-offs needed between performance and capacity.

SSDNow KC310 features an 8-channel Phison S10 controller plus a DDR3 DRAM cache and quad-core processor for speeds of 550MB/s read and 520MB/s write. Its high IOPS reduce application latency and improve boot-up and responsiveness to increase productivity and extend the life of existing HDD-based systems.

KC310 delivers end-to-end data protection with Advanced Smart ECC and Flash ECC protection for advanced data reliability. Intelligent data error correction fixes up to 120bits for every 2KB of data and, in the event of an error, data is rebuilt.

For added peace of mind, KC310 has firmware-based power loss protection. To maintain data integrity in cases of unexpected power loss, the drive ensures data in cache is constantly flushed and hardened to NAND.

SSDNow KC310 is backed by a three-year warranty, free technical support and legendary Kingston® reliability.

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- > Easy HDD replacement for instant performance gain
 - > High capacity to store all your important data
 - > Delivers high IOPS and reduces application latency

SSDNow KC310 is ideal for:

- High-performance and high-capacity storage needs
- Improved system boot-up and responsiveness
- Increased business efficiency

Features/specs on reverse >>



SSDNow KC310

FEATURES/BENEFITS

- > **High capacity** — more room to store applications and data
- > **High performance** — allows user to fully exploit the potential of their systems while enhancing productivity
- > **End-to-end data protection** — provides intelligent data error correction for advanced data reliability
- > **Firmware-based power loss protection** — enables drive to recover from unsafe power shutdown
- > **Supports S.M.A.R.T.** — monitors the status of your drive
- > **Supports TRIM** — maintains maximum performance on compatible operating systems
- > **Guaranteed** — three-year warranty and free technical support

SPECIFICATIONS

- > **Form factor** 2.5"
- > **Interface** SATA Rev. 3.0 (6Gb/s) – with backwards compatibility to SATA Rev. 2.0 (3Gb/s)
- > **Capacities**¹ 960GB
- > **Controller** Phison 3110
- > **Sequential read/write**² SATA Rev. 3.0 – up to: 550/520MB/s
- > **Maximum 4k read/write**² Up to 99,000/89,000 IOPS
- > **Random 4k read/write**² Up to 96,000/88,000 IOPS
- > **PCMARK® Vantage HDD Suite score** 80,700
- > **Enterprise S.M.A.R.T. tools** reliability tracking, usage statistics, life remaining, wear levelling, temperature
- > **Total Bytes Written (TBW)**³ 681TB 0.66 DWPD⁴
- > **Power consumption** 0.54 W idle / 0.67 W avg / 1.66 W (MAX) read / 3.26 W (MAX) write
- > **Storage temperature** -40°C~85°C
- > **Operating temperature** 0°C~70°C
- > **Dimensions** 69.9mm x 100.1mm x 7.0mm
- > **Weight** 84g
- > **Vibration operating** 2.17G peak (7–800Hz)
- > **Vibration non-operating** 20G peak (10–2000Hz)
- > **MTBF** 1 million hours
- > **Warranty/support** 3-year warranty with free technical support

¹ Some of the listed capacity on a Flash storage device is used for formatting and other functions and is thus 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 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.

³ Total Bytes Written (TBW) is derived from the JEDEC Client Workload (JESD219A).

⁴ Drive Writes Per Day (DWPD)

⁵ Operating system software support: Windows® 7 (SP1), Windows Vista® (SP2), Windows XP (SP3)

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FLASH MEMORY STORE
DURABLE
PC STORAGE
UPGRADE KIT
SOLID-STATE DRIVE



KINGSTON PART NUMBERS

SKC310S37A/960G stand-alone drive
SKC310S3B7A/960G (upgrade bundle kit)

BUNDLE INCLUDES

- 2.5" SSD
- 2.5" USB enclosure
- 3.5" bracket and mounting screws
- SATA power and data cable
- Hard drive cloning software⁵ and installation video (DVD)
- 7mm-9.5mm adapter

