KC600 SSD

kingston.com/ssd

Remarkable performance in full capacity

Kingston's KC600 is a full-capacity SSD designed to provide remarkable performance and optimised to provide functional system responsiveness with incredible boot, loading and transfer times. It comes in a 2.5" form factor using SATA Rev 3.0 interface with backwards compatibility. The KC600 utilises the latest 3D TLC NAND technology while supporting a full security suite that includes AES 256-bit hardware encryption, TCG Opal and eDrive. It features read/write speeds of up to 550/520MB/s[1] to efficiently store your data up to 2TB[2]. It's available in a bundle kit that provides everything you need for a smooth and easy desktop and notebook installation and upgrade.



- Remarkable performance
- Features the latest 3D TLC NAND technology
- Supports a full security suite (TCG Opal, AES 256-bit, eDrive)
- Available in range of full capacities

Features/specs on reverse ››

Kingston TECHNOLOGY

KC600 SSD

FEATURES/BENEFITS

> **Remarkable performance** — Using the latest 3D TLC NAND technology, it enables read/write speeds of up to 550/520MB/s.[1]

> **Full security suite** — Protect and secure your data with Kingston's self-encrypting drive.

> **Easy installation/upgrade** — KC600 is available in an upgrade bundle kit that has everything you need to install your drive easily.

> **Multiple capacities** — KC600 is available in a range of full capacities from 256GB to 2TB.[2]

SPECIFICATIONS

> **Form factor** 2.5"

> **Interface** SATA Rev. 3.0 (6Gb/s) – with backwards capability to SATA Rev 2.0 (3Gb/s)

> **Capacities[2]** 256GB, 512GB, 1024GB, 2048GB

> **Controller** SM2259

> **NAND** 3D TLC

> **Encrypted** XTS-AES 256-bit encryption

> **Sequential read/write[1]**
256GB — up to 550/500MB/s
512GB–2048GB — up to 550/520MB/s

> **Maximum 4K read/write[1]** up to 90,000/80,000 IOPS

> **Power consumption**
0.06W idle / 0.2W avg / 1.3W (MAX) read / 3.2W (MAX) write

> **Dimensions** 100.1mm x 69.85mm x 7mm

> **Weight** 40g

> **Operating temperature** 0°C~70°C

> **Storage temperature** -40°C~85°C

> **Vibration operating** 2.17G peak (7-800Hz)

> **Vibration non-operating** 20G peak (10-2000Hz)

> **Life expectancy** 1 millions hours MTBF

> **Warranty/support[3]**
limited 5-year warranty with free technical support

> **Total Bytes Written (TBW)[4]**
256GB — 150TB 512GB — 300TB
1024GB — 600TB 2048GB — 1200TB



PART NUMBERS

Stand-alone drive	Desktop/Notebook upgrade kit
SKC600/256G	SKC600B/256G
SKC600/512G	SKC600B/512G
SKC600/1024G	SKC600B/1024G
SKC600/2048G	SKC600B/2048G

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[5]

The cryptographic functions mentioned in the present section are implemented in the firmware of the product. The cryptographic functions of the firmware can be changed only during the manufacturing process and cannot be changed by a standard user. The product is designed for installation by the user in accordance with the step-by-step instructions in the installation user guide supplied with the product. It can therefore be used without further substantial support from the supplier.

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 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 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.
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).

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MKD-409EN