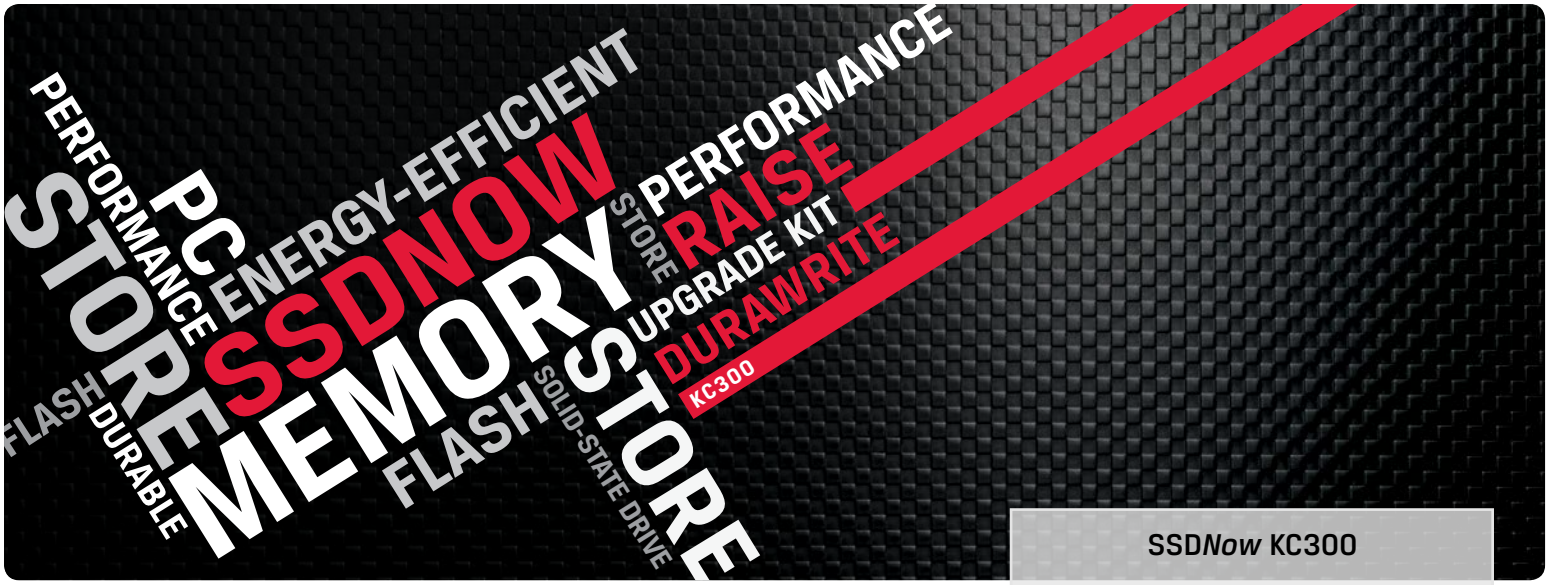


SSD*Now* KC300

Get more out of your computer.

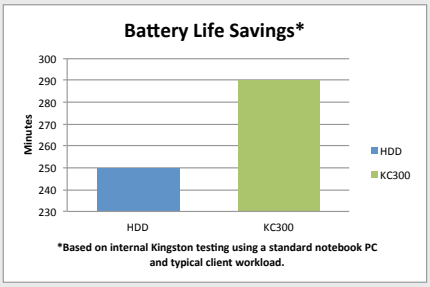
Kingston's KC300 SSD*Now* solid-state drive is one of the most power-efficient SSDs on the market. It provides up to 40 minutes more battery life than a hard drive*, to let you do more work from a single charge.

KC300 features enterprise-grade SMART attributes that track wear range data, SSD life left, write amplification and total bytes written to analyse your workload and monitor the drive's health. Its Advanced Data Integrity Protection includes DuraWrite™ and RAISE™ for a longer life for your data and your drive.

KC300 supports TCG Opal 2.0, IEEE 1667 and Microsoft eDrive, making it ideal for companies using client management software to centrally manage security policies, password recovery, compliance logging, automatic updates and user creation/deletion[5].

KC300 features a Physical Security ID (PSID) printed on the drive label which allows users to revert a managed drive back to factory default.

- > One of the most power-efficient SSDs on the market
- > Advanced data integrity protection built in
- > Enterprise-grade SMART attributes allow for easy drive monitoring
- > Supports TCG Opal 2.0 and IEEE 1667



Features/specs on reverse ››

Kingston TECHNOLOGY

SSD*Now* KC300

FEATURES/BENEFITS

> **Advanced power management** — extends notebook battery life during a typical computing session
> **Fast** — dramatic performance increase for any system upgrade
> **Endurance** — Data Integrity Protection featuring DuraClass technology
> **Durable** — DuraWrite intelligent compression engine extends the life of the SSD
> **Dependable** — RAISE reduces the number of uncorrectable errors on the drive
> **Multiple capacities** — the right capacity to meet your storage needs
> **TCG Opal** — This new version supports TCG Opal 2.0 and IEEE 1667, and there are no changes in drive performance as a result of this update.

SPECIFICATIONS

> **Form factor** 2.5"
> **Interface** SATA Rev. 3.0 (6Gb/s) – with backwards compatibility to SATA Rev. 2.0 (3Gb/s)
> **Capacities**[1] 60GB, 120GB, 180GB, 240GB, 480GB
> **Controller** SandForce SF2281
> **Encryption** Automatic encryption (AES 256-bit)
> **Sequential read/write**[2] SATA Rev. 3.0 – 60GB – up to: 525/500MB/s
120GB – up to: 525/500MB/s
180GB – up to: 525/500MB/s
240GB – up to: 525/500MB/s
480GB – up to: 525/500MB/s
> **Maximum 4k read/write**[2] 60GB – up to 85,000/64,000 IOPS
120GB – up to 85,000/64,000 IOPS
180GB – up to 85,000/64,000 IOPS
240GB – up to 85,000/52,000 IOPS
480GB – up to 73,000/32,000 IOPS
> **Random 4k read/write**[2] 60GB – up to 10,500/64,000 IOPS
120GB – up to 17,000/64,000 IOPS
180GB – up to 32,000/56,000 IOPS
240GB – up to 32,000/56,000 IOPS
480GB – up to 47,000/22,000 IOPS
> **PCMARK® Vantage HDD Suite score** 60,000
> **Enterprise SMART tools** reliability tracking, usage statistics, life remaining, wear levelling, temperature
> **Total Bytes Written (TBW)**[3] 60GB – 193TB 3 DWPD[4]
120GB – 290TB 2 DWPD[4]
180GB – 531TB 3 DWPD[4]
240GB – 765TB 3 DWPD[4]
480GB – 1,785TB 3 DWPD[4]
> **Power consumption**
0.08 W idle / 0.16 W avg / 1.73 W (MAX) read / 2.49 W (MAX) write
> **Storage temperature** -40°C ~ 85°C
> **Operating temperature** 0°C ~ 70°C
> **Dimensions** 69.8mm x 100.1mm x 7.0mm
> **Weight** 60GB, 120GB, 180GB, 240GB — 86.0g, 480GB — 92.3g
> **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

SandForce DRIVEN LSI

KINGSTON PART NUMBERS

SKC300S37A/60G stand-alone drive
SKC300S37A/120G stand-alone drive
SKC300S37A/180G stand-alone drive
SKC300S37A/240G stand-alone drive
SKC300S37A/480G stand-alone drive
SKC300S3B7A/60G (upgrade bundle kit)
SKC300S3B7A/120G (upgrade bundle kit)
SKC300S3B7A/180G (upgrade bundle kit)
SKC300S3B7A/240G (upgrade bundle kit)
SKC300S3B7A/480G (upgrade bundle kit)

BUNDLES INCLUDE

- 2.5" SSD
- 2.5" USB enclosure
- 3.5" bracket and mounting screws
- SATA power and data cable
- Hard drive cloning software[5] and installation video (DVD)
- 7mm–9.5mm adapter

As of 12 January 2015, Kingston is shipping an updated version of the KC300. This new version supports TCG Opal 2.0 and IEEE 1667, and there are no changes in drive performance as a result of this update. This new configuration is set at the factory and cannot be enabled via field updater. It is easy to identify which version of the drive you are using by looking at the label. The new label contains the 32-character PSID which makes it easier to revert a managed drive back to factory default.

Kingston KC300 with Windows eDrive allows up to 4 separate user locking ranges with AES 256-bit hardware encryption. Microsoft Bitlocker will enable software encryption for any additional user locking ranges.

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

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". Speed may vary due to host hardware, software and usage.

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

4 Drive Writes Per Day (DWPD)

5 Kingston KC300 with Windows eDrive allows up to four separate user locking ranges with AES 256-bit hardware encryption. Microsoft Bitlocker will enable software encryption for any additional user locking ranges.

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