UV300 SSD

Dramatically improve your system's performance.

Kingston's UV300 solid-state drive is the perfect performance upgrade at a low price. It uses TLC NAND, the latest generation of SSD NAND storage, and is 10x faster than traditional hard drives[1]. It's powered by a quad-core Phison S10 controller for incredible 550MB/s read and up to 510MB/s write[1] speeds with both compressible and incompressible data and much faster boot times than a hard drive. With no moving parts, UV300 is shock-proof, withstands drops and bumps and is less likely to fail than a hard drive. It also consumes less energy and stays cooler.

› 10x faster than a traditional 7200RPM hard drive[1]

› TLC NAND delivers on the performance benefits of an SSD at a lower price

› More durable and more reliable than a hard drive

UV300 SSD

FEATURES/ BENEFITS

> **Quad-core controller** — Kingston's UV300 is powered by a quad-core Phison S10 controller that delivers incredible speeds with both compressible and incompressible data and a processor optimised for performance and endurance

> **Multiple capacities** — UV300 is available in 120GB, 240GB and 480GB capacities to suit anyone's needs

> **10x faster than a traditional hard drive** — Increase performance and breathe new life into older systems with UV300's incredible read and write speeds

> **Limited three-year warranty**[2] — UV300 is backed by a limited three-year warranty, free technical support and legendary Kingston reliability

SPECIFICATIONS

> **Form factor** 2.5"

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

> **Capacities**[3] 120GB, 240GB, 480GB

> **Controller** Phison S10

> **Baseline Performance**[1]

    Compressible Data Transfer (ATTO)
    120GB — 550MB/s Read and 350MB/s Write
    240GB — 550MB/s Read and 490MB/s Write
    480GB — 550MB/s Read and 510MB/s Write

    Incompressible Data Transfer (AS-SSD and CrystalDiskMark)
    120GB — 505MB/s Read and 280MB/s Write
    240GB — 510MB/s Read and 445MB/s Write
    480GB — 510MB/s Read and 495MB/s Write

    IOMETER Maximum Random 4k Read/Write
    120GB — 95,000 IOPS and 13,000 IOPS
    240GB — 95,000 IOPS and 20,000 IOPS
    480GB — 95,000 IOPS and 26,000 IOPS

    Random 4k Read/Write
    120GB — 64,000 IOPS and 12,000 IOPS
    240GB — 81,000 IOPS and 18,000 IOPS
    480GB — 81,000 IOPS and 25,000 IOPS

    PCMARK® Vantage HDD Suite Score
    120GB, 240GB, 480GB — 81,000

    PCMARK® 8 Storage Bandwidth
    120GB — 145MB/s, 240GB and 480GB — 165MB/s

    PCMARK® 8 Storage Score
    120GB —4,805, 240GB and 480GB — 4,860

    Anvil Total Score (Incompressible Workload)
    120GB — 2,600, 240GB — 2,950, 480GB — 3,740

> **Power Consumption** 0.1W Idle / 0.36W Avg / 1.26W (MAX) Read / 4.14W (MAX) Write

> **Storage temperature** -40℃~85℃

> **Operating temperature** 0℃~70℃

> **Dimensions** 100.0mm x 69.9mm x 7.0mm

> **Weight** 120GB, 240GB, 480GB — 52g

> **Vibration operating** 2.17G Peak (7–800Hz)

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

> **Life expectancy** 1 million hours MTBF

> **Warranty/support** Limited 3-year warranty with free technical support

> **Total Bytes Written (TBW)**[4] 120GB: 60TB
        240GB: 120TB
        480GB: 240TB

KINGSTON PART NUMBERS

SUV300S37A/120G

SUV300S37A/240G

SUV300S37A/480G

The 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 random read/write is based on an 8GB partition.
2 Limited warranty based on 3 years or SSD "Life Remaining" which can be found using the Kingston SSD Manager (kingston.com/SSDManager).
3 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.
4 Total Bytes Written (TBW) is derived from the JEDEC Client Workload (JESD219A).

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TECHNOLOGY