mS200 SSD
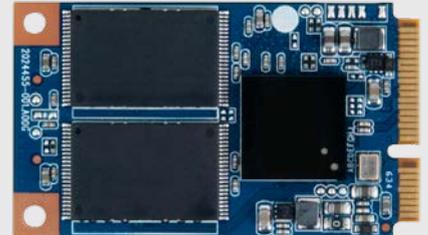
Save space, time and money.

Kingston's SSD*Now* mS200 mSATA solid-state drive offers a cost-effective performance boost with a dual-drive option that allows room for adding high-capacity storage. Ideal for system builders, OEMs and enthusiasts, the mS200's ruggedly-cool, miniscule form factor is eight times smaller than a traditional 2.5-inch hard drive, making it perfect for notebooks, tablets and Ultrabooks. Available in capacities of up to 480GB, ms200 has a caseless, PCB-only design with no moving parts and is backed by a three-year warranty, free technical support and legendary Kingston® reliability.

› Takes up to 8x less space than a standard 2.5-inch hard drive

› Great as a boot/cache drive

› Latest generation mSATA interface — SATA Rev. 3.0 (6Gb/s)

SSD*Now* mS200 is great for:
- Small, purpose-built industrial systems
- Replacing compact Flash-based solutions
- Media centre PCs with limited drive bays
- Cost-effective boot drive for system builders
- Notebook upgrades (with mSATA port)
- Notebook dual-drive configurations (mSATA SSD + HDD)

Kingston TECHNOLOGY

mS200 SSD

FEATURES/BENEFITS

> **mSATA interface** — fully compliant with industry standard, easy to fit, guaranteed to work

> **NAND Flash memory based** — shock-resistant with low power consumption

> **Supports Intel's SRT** — combines capacity advantage of HDD with performance improvements of SSD in dual-storage configuration

> **Supports SMART** — monitors the status of your drive

> **Supports TRIM** — maintains maximum performance on compatible operating systems

> **Guaranteed** — three-year warranty, free technical support

SPECIFICATIONS

> **Form factor** mSATA

> **Interface** SATA Rev. 3.0 (6Gb/s), SATA Rev. 2.0 (3Gb/s), SATA Rev. 1.0 (1.5Gb/s)

> **Capacities**[1] 60GB, 120GB, 240GB, 480GB

> **Controller** SandForce-SF2241

> **Automatic encryption (AES 128-bit)** Password at the drive level ensures secure data protection

> **Sequential read/write**[2]
60GB, 120GB – 550MB/s / 520MB/s
240GB – 540MB/s / 530MB/s
480GB – 530MB/s / 340MB/s

> **Maximum 4k read/write**[2]
60GB – up to 86,000/ up to 79,000 IOPS
120GB – up to 86,000/ up to 48,000 IOPS
240GB – up to 72,000/ up to 40,000 IOPS
480GB – up to 72,000/ up to 18,000 IOPS

> **Random 4k read/write**[2]
60GB – up to 14,000/77,000 IOPS
120GB – up to 17,000/45,000 IOPS
240GB – up to 21,000/41,000 IOPS
480GB – up to 21,000/13,000 IOPS

> **PCMARK® Vantage HDD Suite score** 60,000

> **Power consumption** 0.4W idle / 1.2 (TYP) read / 1.8W (TYP) write

> **Storage temperature** -40℃ ~ 85℃

> **Operating temperature** 0℃ ~ 70℃

> **Dimensions** 50.88mm x 30mm

> **Weight** 6.86g

> **TRIM** Supported

> **Vibration operating** 2.17G

> **Vibration non-operating** 20G

> **MTTF** 1,000,000 hrs

> **Warranty/support** three-year warranty with free technical support

> **Total Bytes Written (TBW)**[3]
60GB: 218TB 3 DWPD[4]
120GB: 337TB 2 DWPD[4]
240GB: 585TB 2 DWPD[4]
480GB: 1562TB 3 DWPD[4]

KINGSTON PART NUMBERS

SMS200S3/60G

SMS200S3/120G

SMS200S3/240G

SMS200S3/480G

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)

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