# uSSD™ 5000 solid state drives

**Rugged & Reliable**
**Cost Effective**
**High Performance**

SanDisk uSSD™ 5000 solid state drive takes the benefits of flash to new markets with low-capacity storage requirements, most notably the low cost PC (LCPC). Rugged and reliable, it is a fraction of the size and cost of the hard disk drive (HDD) in the 1 to 8 GB* range. SanDisk adds high performance to the uSSD 5000 solid state drive offering, with an advanced controller that represents the company's years of USB expertise.

## Applications

SanDisk uSSD 5000 solid state drive offers a no-compromise flash-based storage solution for:

- LCPCs that must be rugged reliable and require up to 4GB storage. uSSD 5000 solid state drive can meet these requirements more efficiently than the HDD.
- Desktops that support Microsoft® Vista and can benefit from enabling ReadyBoost®.
- Point of sale (POS) stations, where uSSD 5000 solid state drive replaces the HDD.
- Blade servers, where uSSD 5000 solid state drive is ideal to store critical backup files and provide boot functionality.

## Rugged & Reliable

Unlike the HDD, SanDisk uSSD 5000 solid state drive has no moving parts. It keeps working in challenging environments such as classrooms, kiosks and in space-restricted server racks. Our patented flash management technology brings top data integrity to uSSD 5000 solid state drives, even during power loss. Dynamic bad block management, dynamic and static wear-leveling, and robust error detection and correction code (EDC/ECC) ensure data reliability.

## High Performance

SanDisk uSSD 5000 solid state drives achieve a sustained read speed as high as 31 MB/sec and a sustained write speed of up to 24 MB/sec with single-level cell (SLC) technology.

## Cost Effective

Why pay for more capacity than you need? uSSD 5000 solid state drives let you purchase just the right amount, packed inside a memory device that's one-quarter the size of the 1.8" HDD. It offers you the choice of SLC flash technology or the cost-effective multi-level cell (MLC) technology.

SanDisk®

## Specifications

**High Performance***

SLC flash

- Sustained Read 31.6 MB/sec
- Sustained Write 24.8 MB/sec

MLC flash

- Sustained Read 29.9 MB/sec
- Sustained Write 12.8 MB/sec

**Form Factors**

- 2x5 header, x86 internal USB standard
- Configurations: Standard, low profile

**Electrical Specifications**

- DC supply voltage: 5V (±10%)
- Active mode: 150 mA (typ)

**High Reliability**

- Unlimited Read cycles
- Dynamic and static wear-leveling
- Dynamic bad block management
- Advanced EDC/ECC
- Up to 4M mean time to failure (MTTF)** hours

**Wide Capacity Range**

- SLC flash: 1GB to 8GB
- MLC flash: 2GB to 8GB

**Limited Warranty**

- 3 years

**Compatibility and Certifications**

- USB 2.0 interface, certified by the USB organization
- Complies with Microsoft Vista ReadyBoost requirements
- RoHS & Chinese RoHS Compliance

**Wide OS Support**

- Microsoft XP Embedded, Microsoft Windows for Point of Service, Microsoft Win.CE, Microsoft XP Pro, Microsoft Windows Server 2003, Microsoft Windows Vista (ReadyBoost & Storage), and Linux

**Environmental Specifications**

- Operating temperature: 0˚C to +70˚C
- Storage temperature: -55˚C to +95˚C
- Operating altitude: up to 80,000 feet
- Operating shock: 50g, 11msec, half sine
- Non-operating shock: 1,500G, 0.5msec, half sine
- Operating vibration: 2.17gRMS (20Hz to 2000Hz)
- Non-operating vibration: 3.08gRMS (20Hz to 2000Hz)

**Mechanical Specifications**

- Standard: 26.65mm X 37.80mm X 10.60mm
- Low profile: 26.65mm X 37.80mm X 6.88mm

** 1 gigabyte (GB) = 1 billion bytes; 1 megabyte (MB) = 1 million bytes; speeds based on internal testing; performance may be lower depending on host device. Some of the listed capacity is used for formatting and other functions, and thus is not available for data storage.*

*** Based on internal testing. The MTTF calculation does not take into account the disk endurance limitation. For the disk endurance, please refer to the endurance section in the product specification.*


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For more information, please visit www.sandisk.com/uSSD


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