

# 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 16 GB<sup>1</sup> 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 16 GB<sup>1</sup> 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 30 MB/sec and a sustained write speed of up to 20 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 30 MB/sec
- Sustained Write 20 MB/sec

#### MLC flash

- Sustained Read 27 MB/sec
- Sustained Write 12 MB/sec\*

\* Note: Sustained Write 6 MB/sec at 2GB

### Form Factors

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

### Electrical Specifications

- DC supply voltage: 5V ( $\pm 10\%$ )
- Active mode: 150-200 mA (typ) depending on flash configuration

### Compatibility and Certifications

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

### OS Support

Microsoft Windows Vista, Microsoft Windows XP Pro, Microsoft Windows XP Embedded, Microsoft Windows for Point of Service, Microsoft Win CE, Microsoft Windows Server 2003, Linux and DOS

### Environmental Specifications

- Operating temperature: 0°C to +70°C
- Storage temperature: -40°C to +85°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 6.58mm

\* Note: Tolerance of all measures is  $\pm 0.25$ mm

1. 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.

2. Based on internal testing. The MTTF calculation does not take into account the disk endurance limitation.

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### High Reliability

- Unlimited Read cycles
- Dynamic and static wear-leveling
- Dynamic bad block management
- Advanced EDC/ECC
- Up to 8M hours mean time to failure (MTTF)<sup>2</sup>

### Capacity Range

- SLC flash: 1GB to 8GB
- MLC flash: 2GB to 16GB

### Limited Warranty

- 3 years

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