

SanDisk® SSD

SanDisk Solid State Drive

Durable
High Performance
Power Efficient

SanDisk SSD 5000 Family				
		SSD 2.5" SATA	SSD 1.8" UATA	SSD 1.8" SATA ⁴
Interface		SATA I	ATA-7, ZIF connector	SATA II
Capacity (GB)¹		4, 8, 16, 32, 64	32, 64	32, 48, 64, 72
Mechanical Dimensions	Height	9.5mm	8mm	5mm
	Weight	96gr	60gr	44gr
Performance	Burst	150MB/s	100MB/s	300MB/s
	Read ²	67MB/s	67MB/s	66MB/s
	Write ²	47MB/s	47MB/s	52MB/s
	Average access time ²	0.11ms	0.11ms	0.1ms
	I/O per second (IOPS) for 512KB transfer size ³	Read: 7000	Read: 7000	Read: 7000
Power	Read/Write	1.0W	0.5W	0.85W
	Idle	0.4W	0.2W	0.2W
Reliability	MTTF	2,000,000 hrs	2,000,000 hrs	2,000,000 hrs
Temperature Conditions	Operating	0°C to 70°C	0°C to 70°C	0°C to 70°C
	Non-operating	-55°C to 95°C	-55°C to 95°C	-55°C to 95°C
Vibration	Operating	2.17G	2.17G	2.17G
Shock	Operating	1,000G/0.5msec	1,500G/0.5msec	1,500G/0.5msec
Acoustic Noise	Active	None	None	None

1. 1 megabyte (MB) = 1 million bytes; 1 gigabyte (GB) = 1 billion bytes
 2. H2BENCH 3.6; average access time = average seek time + average latency time
 3. IOMETER 2003.12.16⁴
 4. Preliminary

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Our Leading Solid State Drive for Mobile Computing

SanDisk solid state drive (SSD), field-proven for over a decade in the harshest of operating environments, is now reshaping the landscape of mobile computing.

Using the best of flash enhanced by our extensive IP portfolio, the SanDisk SSD family brings durability, performance and power efficiency to a peak. With unbeatable mean time to failure (MTTF) rates as compared with the hard disk drive, SanDisk SSD trims back maintenance costs to cut down the total cost of ownership (TCO) of notebooks – particularly critical in the enterprise space.

SanDisk SSD. It takes flash in mobile computing to new heights.

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SanDisk SSD. Drive your laptop.

Every day, flash is gaining wider endorsement from key operating systems, such as Microsoft® Windows Vista™, and from many storage players in the mobile computing market. Interim solutions, such as the hybrid hard drive and the flash-based cache, combine the benefits of flash with the hard disk drive (HDD). But as the price of flash continues to decline, the SSD is now set to take the flash advantage one level higher: it completely replaces the HDD, eliminating the associated mechanical failures.

SanDisk, the industry leader in flash storage, is uniquely positioned to drive the paradigm shift in mobile computing to SSDs. Inside enterprise computers, such as the thin and light laptop and ultra-mobile PC (UMPC), SanDisk SSD delivers unbeatable durability, system performance and power efficiency as compared with the HDD.



Most Durable and Reliable

SanDisk SSD is ideal for road warriors and other enterprise users who rely heavily on the data they store in their notebooks.

- With no moving parts, SanDisk SSD can withstand extreme temperature ranges, and conditions of vibration and shock in transit, as well as in outdoor environments.
- SanDisk SSD improves MTTF rates up to six times as compared with the rotating HDD.
- SanDisk offers top data reliability and flash endurance.

High Performance

Flash memory delivers performance that keeps pace with “on the go” lifestyles. Compared with the HDD:

- SanDisk speeds up operating system boot and application launch/runtime by up to 2 times.
- SanDisk SSD has no seek or latency time. This gives a tremendous boost to average access time.
- SanDisk SSD maintains fixed performance that does not deteriorate as the media fills up.

More Power Efficient

Flash memory saves power, keeping notebooks running longer so that users in transit can perform numerous read/write tasks every operating hour. In a typical working scenario based on the MobileMark® benchmark:

- SanDisk SSD consumes up to 50 percent less power than the HDD.
- SanDisk SSD extends the battery life.

More Cost-Effective

Flash prices continue to decline dramatically from year to year while densities double at the same rate.

- High flash reliability cuts tangible costs associated with IT person hours, loss of productivity, data recovery, warranty and service.
- High flash reliability reduces intangible costs associated with inaccessible data from outside the office, loss of business opportunities and reputation.
- SanDisk SSD uses its own patented flash management to take advantage of the most advanced, cost-effective flash technology – while keeping performance high.
- Flash requires no maintenance, further reducing the total cost of ownership (TCO) of SanDisk SSD as compared with the HDD.

Smaller Form Factor

Flash enables sleek and slim notebook designs.

- Flash is available in smaller form factors than the HDD.
- Case-less flash weighs less and occupies less real estate.

Cooler

With no moving parts, flash remains cool in operation.

- Unlike HDDs, SanDisk SSD does not require constant cooling for proper operation.
- SanDisk SSD keeps notebooks cooler by consuming significantly less power than the HDD.

More Secure

SanDisk SSD helps to ensure that confidential files remain confidential.

- SanDisk SSD enables password login.
- SanDisk SSD supports ATA security features.

Environmentally Friendly

Flash components are attuned to cleaner environment standards.

- Flash is noise-free, enhancing the user experience.
- Flash is RoHS compliant.

