

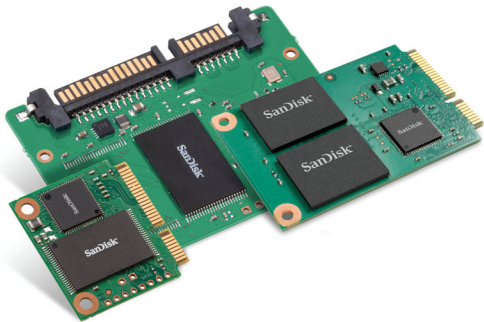


SanDisk®

## SanDisk® U100 SSD (Solid State Drive)

Introducing Serial-ATA (SATA) Performance, Low Power, Form Factor Miniaturization and Cost Efficient Storage Solution.

The SanDisk® U100 SSD delivers high SATA 6 Gb/s performance at a competitive cost. It is conveniently offered in a variety of light weight and small form factors, making it the natural fit for a variety of thin and mobile computing platforms such as ultra-thin notebooks and high end tablets.



### A bundle of benefits. Affordable cost

OEMs are now looking for a storage solution that meets thin form factor requirements, supports diverse feature sets and also satisfies performance and power requirements, while maintaining an affordable cost profile.

SanDisk U100 SSD meets challenging OEM size requirements, while delivering fast sequential/random performance and solid long-term data endurance<sup>1</sup> that is also cost effective. It is rugged and reliable; light weight and delivers silent operation.

### SanDisk® U100 SSD Benefits:

- High SATA 6 Gb/s performance: Up to 480/380 MB/s<sup>4</sup> Read/Write Sequential
- Supports form factor innovation: Half-Slim SATA, mSATA, mSATA mini, 2.5" Cased
- Low slumber mode power consumption: 10mW<sup>5</sup>
- Competitive Pricing
- Wide capacity offering: 8 GB - 256 GB<sup>2</sup>
- Improves user experience:
  - Fast boot and applications launch time
  - Speedy browsing, emailing and social usage capabilities
  - Enhanced multi tasking capabilities
- Based on SATA signaling and JEDEC standard package: grounded in the industry's most mature storage ecosystem

SanDisk U100 SSD's unique power management features enable OEMs to optimize battery life while still meeting demanding performance requirements evolving in the market. Take advantage of SSD performance while avoiding the power penalty typically associated with SATA performance. Factor in SanDisk U100 SSD's wide range of capacities (8 GB - 256 GB<sup>2</sup>) and competitive pricing and it makes an ideal storage choice for a variety of thin and mobile computing platforms.

### SanDisk® U100 SSD Supported by Key Innovations and Technology Leadership

**nCache™ Acceleration Technology<sup>3</sup>:** At the heart of SanDisk's Adaptive Flash Management (AFM), there is a large non-volatile SLC write cache technology that enables fast user response, no stuttering, better multi tasking capabilities and significantly improves the drive's long-term data endurance, ensuring an enhanced user experience.

**Power Classes:** Power budgets are paramount in mobile computing applications. U100 SSD supports Power Classes, which provide the ability to limit SSD performance and in turn, limit power consumption. This allows for optimized flexibility between power and performance enabling, OEMs to take

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1. Approximations based on an industry metric, introduced by SanDisk, that quantifies how much data can be written to a SSD in its lifespan expressed in terabytes written (TBW). Data is written using typical PC transfer size, written at a constant rate over the life of the SSD and data is retained for at least 1 year upon TBW exhaustion. Based on SanDisk internal measurements, a typical client PC user writes 4 GB/day.
2. 1 gigabyte (GB) = 1 billion bytes. 1 terabyte (TB) = 1 trillion bytes. Some capacity not available for data storage.
3. nCache™ acceleration technology is a large Non Volatile Write Cache, a unique feature in SanDisk SSDs that improves random write performance to ensure an improved user experience. Studies show that modern operating systems mostly access the storage device using 4k access blocks. The cache is filled during these small write commands and emptied during idle time when the host is not accessing the drive, with no risk of data loss. For a typical everyday use, the write performance that the users see is the nCache™ (burst) high performance, and not steady state (sustained) SanDisk U100 SSD performance. Based on IOmeter 4K random write test.
4. Based on SanDisk internal testing; performance may be lower depending upon host device. Technical specifications are preliminary and subject to change.
5. With Slumber (SATA PHY state) power mode and DIPM enabled. Lower power modes can be achieved by implementing advanced low power management techniques. Technical specifications are preliminary and subject to change.
6. MTBF - Mean Time Between Failures based on part stress analysis.
7. Applies to U100 SSD mSATA Mini form factor. 8 GB - 32 GB. Dimensions and weight vary based on form factor and capacity.

## SanDisk®

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advantage of numerous SSD benefits even when maximum performance is not required.

**Form Factor Miniaturization Leadership:** SanDisk SSD U100 is offered in a variety of innovative form factors. Form factors such as Half-Slim SATA, mSATA, mSATA mini and the SATA μSSD™ form factor standard (see SanDisk iSSD™ integrated storage device) as well as a customized form factor option, support an array of design needs making SanDisk U100 SSD an ideal fit for the ultra thin, light weight and highly mobile computing devices.

## SanDisk® SSD – A Trusted Partner:

New usage models and innovative mobile computing designs are attracting key players in the ecosystem to SATA and U100 SSD. Ecosystem partners include chipset vendors, OS vendors and box manufacturers (ODMs). This ecosystem enablement leads to OEM adoption. SanDisk is consistently listening to market needs from OEMs, partners, application developers and other relevant ecosystem stakeholders. This ensures that our offerings are optimally aligned to market needs and fast-moving requirements.

Supported by vertical integration and over 20 years of experience in the flash memory business, SanDisk continues to deliver ground breaking solutions that repeatedly revolutionize the world of mobile computing and beyond. SanDisk is a trusted partner that you can always count on to guide you into the future.

### SanDisk® U100 SSD product features and specifications Specifications are preliminary and subject to change

Device	SanDisk U100 SSD
Form Factor	Half-Slim SATA, mSATA, mSATA mini, Cased 2.5"
Interface	SATA 6Gb/s
Capacity (GB) <sup>2</sup>	8, 16, 32, 64, 128, 256
Performance <sup>4</sup>	
Sequential Read/Write	Up to 480 MB/s 380 MB/s
Random Write IOPs – sustained:	1000 IOPs
4K Random Read	7000 IOPs (across 8GB capacity range)
MTBF <sup>6</sup>	Up to 4,000,000 hours
Endurance <sup>1</sup>	5 TBW (8 GB), 10 TBW (16 GB), 20 TBW (32 GB), 40 TBW (64 GB), 80 TBW (128 GB), 160 TBW (256 GB)
Size <sup>7</sup>	26.8 mm x 30 mm x 3.4 mm
Weight <sup>7</sup>	3.4 g
<b>Low Power Consumption</b>	
DC Supply	+5.0V, +3.3V ±5%
Slumber Power Mode (Typical) <sup>5</sup>	10mW
Active Power (Typical)	4W (@ 3.3 V)
<b>Environmental Specifications</b>	
Operating Temperatures	0°C to +70°C
Storage Temperatures	-55°C to +85°C
Acoustic Noise	0dB
<b>Other</b>	
Supporting Features	TRIM SMART Commands Advanced Flash Management NCQ
OS Support	Windows® XP, Windows® 7, Google Chrome™ OS
Warranty	Limited 3 year Warranty 3 year Warranty in regions not recognizing limited