



SanDisk® Z400s SSD (Solid State Drive)

COST EFFECTIVE AND RELIABLE HDD REPLACEMENT



The SanDisk Z400s is a cost effective SSD designed to replace HDDs in computing platforms. On par with HDD pricing, it can outperform HDDs by a factor of 5, while providing 5 times the reliability at 1/10th the power consumption.

The Z400s is highly versatile and can accommodate a wide range of platforms with its variety of form factors and capacities. It is available in 2.5" 7mm, M.2 2280, and mSATA form factors with capacities from 32GB up to 256GB.

SATA	SAS	PCIe
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Z400S KEY FEATURES

VERTICALLY INTEGRATED VALIDATION

**LOW POWER WITH DEVSLP SUPPORT
FOR GREEN, FANLESS DESIGNS**

32GB-256GB CAPACITIES

**2.5" 7MM, M.2 2280, AND MSATA
FORM FACTORS**

**TESTED FOR 20 TBW (32GB), 40 TBW
(64GB), AND 72 TBW (128 AND 256GB)**

SHOCK-RESISTANT

HIGHER RELIABILITY THAN HDDs

EASY MIGRATION

SATA REVISION 3.2 6GB/S INTERFACE

WINDOWS® WHCK CERTIFIED



The Z400s has also been validated for use in several of the top OEM platforms in the industry, demonstrating its endurance and ability to sustain high-volume transactions. Its solid-state design means there are no moving parts, making it shock-resistant and much more reliable than traditional HDDs, which translates into lower total cost of ownership (TCO) and a better end-user experience.

Low Power

The Z400s utilizes a SATA DEVSLP low-power mode to minimize its power consumption during idle periods. DEVSLP enables the SSD to completely shut off its SATA PHY, thus resulting in much lower power consumption compared to SATA Slumber. This increases the amount of usable hours per battery charge, which is essential for modern mobile devices.

TCO

SanDisk SSDs are more reliable than HDDs, which can improve total cost of ownership (TCO) by reducing downtime due to hard drive failures. They also offer lower latency and greater read/write speeds over traditional HDDs*, so users may experience a noticeable improvement in responsiveness. IT departments can extend the useful life of their PC inventory by upgrading the HDDs to the Z400s SSD, thus prolonging replacement cycles and maximizing asset value.

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Specifications subject to change without notice.

* As compared to 7200 RPM SATA 2.5" hard drive. Based on published specifications and internal benchmarking tests.

¹ Up to stated speed. Performance is based on the CrystalDiskMark benchmark using a 4000MB LBA range, on Gigabyte GA-Z77X-UD5H desktop with Intel Z77 chipset, Intel i7-3770 3.4GHz, 8M, Ivy Bridge, Windows 8 64-bit SP1 using IntelIRST version 11.7.0.1015, secondary drive, C-state on. Performance may vary based on host device. 1 megabyte (MB) = 1 million bytes. IOPS = input/output operations per second.

² Endurance of the Z400s SSD is calculated using JEDEC client workload (JESD219). TBW = terabytes written.

³ Power measurements 25°C. Based on FW version with HIPM-enable.

⁴ MTTF = Mean Time To Failure based on internal testing using Telcordia stress part testing.

⁵ 3 year warranty in regions not recognizing "limited". See www.sandisk.com/wug for more details.

SanDisk®

SOLID STATE FOR BUSINESS

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SanDisk® Z400s SSD Product Features and Specifications

Specifications are preliminary and subject to change

Device	SanDisk Z400s SSD			
Form Factor	7mm 2.5-inch Cased, M.2 2280, mSATA			
Interface	SATA III (6 Gb/s) backward compatible to SATA II and I			
Size & Weight	2.5":	7.00mm x 69.85mm x 100.5mm @ 30 ± 1g		
	M.2 2280:	2.23mm x 22.00mm x 80.0mm @ 5.5 ± 0.5g		
	mSATA:	3.82mm x 29.85mm x 50.8mm @ 5 ± 0.5g		
Performance ¹	32GB	64GB	128GB	256GB
Seq. Read up to (MB/s)	270	520	520	520
Seq. Write up to (MB/s)	45	90	180	330
Rand Read up to (IOPS)	17,000	26,000	30,000	33,000
Rand Write up to (IOPS)	8,000	18,000	40,000	62,000
Endurance (TBW) ²	20	40	72	72
Power (Average)	32GB	64GB	128GB	256GB
Active Power (mW) ³	50	50	50	50
Max Read Operating (mW)	1,200	1,600	1,600	1,600
Max Write Operating (mW)	1,300	1,500	1,900	2,600
Slumber (mW)	20	20	20	20
DEVSLP (mW)	≤5	≤5	≤5	≤5
Reliability				
MTTF ⁴	Up to 1,750,000 hours			
Environmental				
Operating Temperatures	0°C to 70°C			
Non-operating Temperatures	-55°C to 85°C			
Operating Vibration	5.0 gRMS, 10 - 2000 Hz			
Non-operating Vibration	4.9 gRMS, 7 - 800 Hz			
Shock	1,500 G @0.5 msec half sine			
Certifications	FCC, UL, TUV, KC, BSMI, VCCI			
Warranty ⁵	3 Years			

Ordering Information

Form Factor	Capacity	SKU #
mSATA	32GB	SD8SFAT-032G
mSATA	64GB	SD8SFAT-064G
mSATA	128GB	SD8SFAT-128G
2.5" 7mm	32GB	SD8SBAT-032G
2.5" 7mm	64GB	SD8SBAT-064G
2.5" 7mm	128GB	SD8SBAT-128G
2.5" 7mm	256GB	SD8SBAT-256G
M.2 2280	64GB	SD8SNAT-064G
M.2 2280	128GB	SD8SNAT-128G
M.2 2280	256GB	SD8SNAT-256G