

SanDisk[®] Z400s SSD (Solid State Drive)

RELIABILITY AND LOW POWER FOR EMBEDDED PLATFORMS

The SanDisk® Z400s SSD delivers the performance, capacities, and form factors ideal for replacing HDDs in embedded systems. Competitively priced, it can outperform HDDs by a factor of 20 and is 5 times more reliable at 1/20th the power consumption. Companies looking to design sleek, green products will also appreciate its silent, low power, and low heat characteristics.





Z400S KEY FEATURES

VERTICALLY INTEGRATED VALIDATION

32GB-256GB CAPACITIES IDEAL FOR EMBEDDED APPLICATIONS

2.5"/7MM CASED, M.2 (2242 & 2280), AND MSATA FORM FACTORS

LOW POWER, LOW HEAT FOR FANLESS AND GREEN DESIGNS

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

HIGHER RELIABILITY THAN HDDs

SATA REVISION 3.2 6GB/S INTERFACE

WINDOWS* EMBEDDED CERTIFIED

The Z400s is highly versatile and can accommodate a wide range of embedded platforms. It is available in 2.5"/7mm cased, M.2 (2242 & 2280), and mSATA form factors with capacities of 32GB, 64GB, 128GB, and 256GB, which makes it ideal for verticals such as:

- ATMs and interactive kiosks used in a variety of industries, including banking, hotels, and healthcare
- POS systems in the retail, hospitality, and restaurant industries that process numerous daily transactions
- Digital signage used in retail and commercial spaces

(Note: M.2 2242 is only available up to 128GB)

Reliability & TCO

The SanDisk Z400s SSD can improve total cost of ownership (TCO) by reducing downtime and service requests due to hard drive failures. Its solid-state design means there are no moving parts, making it shock-resistant and much more reliable than traditional HDDs.

Endurance

The Z400s is able to sustain a high volume of transactions, which is well-suited for POS systems, ATMs, and other embedded platforms that handle frequent transactions.

Low Power

Its low power characteristics mean it generates very little heat, making the Z400s perfect for green and fanless designs.

Specifications subject to change without notice. ¹ Up to stated speed. Performance is based on the CrystalDiskMark benchmark using a 1000MB LBA range on Gigabyte GA-277X-UDSH desktop with Intel 277 chipset, Intel i7-3770 3.4GHz, 8M, Ivy Bridge, Windows 8 64-bit SPI using Intel IRST version 117.0013, secondary drive, C-state off, Performance may vary based on host device. 1 megabyte (MB) = 1 million bytes. IOPS = input/ with the restrictions are recent. Vary based on nost device. I megapyte (HD) - I minious system to upper 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. ⁶ As compared to 7200 RPM SATA 2.5" hard drive. Based on published specifications and internal benchmarking tests.

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SanDisk Z400s SSD Product Features and Specifications cn/ cifications are subject to ch

		Specificat	tions are subject	t to change
Device			SanDis	k Z400s SSD
Form Factor	2.5"/7mm cased, M.2 (2242 & 2280), mSATA			
Interface	SATA III (6 Gb/s) backward compatible to SATA II and I			
Size & Weight	2.5"/7mm cased	7.00mm x 69.8	35mm x 100.5mm (@ 30 ± 1g
	M.2 2242:	3.50mm x 22.0	00mm x 42.0mm (a) 4.1 ± 0.6g
	M.2 2280:	2.23mm x 22.0	0mm x 80.0mm (a) 5.5 ± 0.5g
	mSATA:	3.82mm x 29.8	5mm x 50.8mm @	0 5 ± 0.5g
Performance [4KB QD1] ¹	32GB	64GB	128GB	256GB
Seq. Read up to (MB/s)	279	546	546	546
Seq. Write up to (MB/s)	48	94	182	342
Rand Read up to (IOPS)	17,300	32,900	35,500	36,600
Rand Write up to (IOPS)	10,100	21,700	43,300	69,400
Endurance (TBW) ²	20	40	72	72
Power (Average)	32GB	64GB	128GB	256GB
Average Power (mW) ³	30	30	30	30
Active Power (W) ³	1.6	1.6	1.6	1.6
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)	14	14	14	14
DEVSLP (mW)	≤3	≤3	≤3	≤3
Reliability				
MTTF⁴		Up to 1,750	,000 hours	
Environmental				
Operating Temperatures				0°C to 70°C
Non-operating Temperatures				55°C to 85°C
Operating Vibration	Operating Vibration 5.0 gRMS, 10 - 2000 H			10 - 2000 Hz
Non-operating Vibration4.9 gRMS, 7 - 800 Hz				
Shock1,500 G @0.5 msec half sine				
Certifications FCC, UL, TUV, KC, BSMI, VCCI				
Warranty⁵				5 Years
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Ordering Information

Form Factor	Capacity	SKU #	
2.5"/7mm cased	32GB	SD8SBAT-032G	
2.5"/7mm cased	64GB	SD8SBAT-064G	
2.5"/7mm cased	128GB	SD8SBAT-128G	
2.5"/7mm cased	256GB	SD8SBAT-256G	
mSATA	32GB	SD8SFAT-032G	
mSATA	64GB	SD8SFAT-064G	
mSATA	128GB	SD8SFAT-128G	
M.2 2242	32GB	SD8SMAT-032G	
M.2 2242	64GB	SD8SMAT-064G	
M.2 2242	128GB	SD8SMAT-128G	
M.2 2280	64GB	SD8SNAT-064G	
M.2 2280	128GB	SD8SNAT-128G	
M.2 2280	256GB	SD8SNAT-256G	

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Pack-Out Option Use: -1122 = Individual Package