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.

SATA	SAS	PCIe	

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.

Contact information
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SanDisk®
a Western Digital brand

SOLID STATE FOR BUSINESS

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SanDisk Z400s SSD Product Features and Specifications
Specifications are subject to change

Device	SanDisk 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 69.85mm x 100.5mm @ 30 ± 1g
	M.2 2242:	3.50mm x 22.00mm x 42.0mm @ 4.1 ± 0.6g
	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 [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	
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]	5 Years

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

Pack-Out Option Use:
-1122 = Individual Package