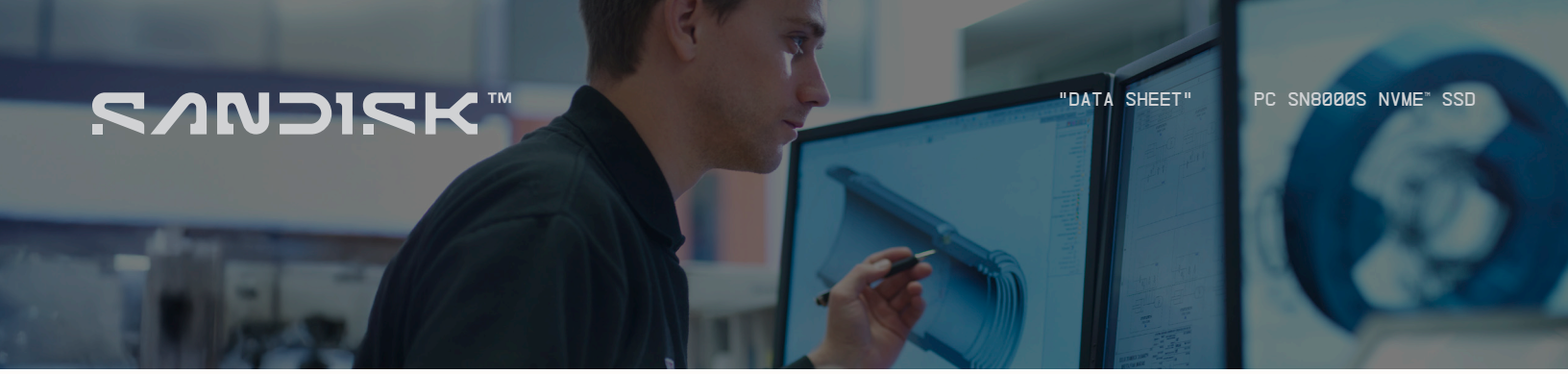

(→) SANDISK® PC SN8000S NVMe™ SSD

Helping to meet the demands of AI-enabled applications

The SANDISK® PC SN8000S NVMe™ SSD is the next generation of performance storage for PCs and workstations to help meet the demands of modern applications and workloads like artificial intelligence, 3D modeling, gaming and professional content creation tools. Designed with the next generation SANDISK 162-layer BiCS6 TLC 3D NAND, the SANDISK PC SN8000S SSD with PCIe Gen4 delivers up to 7,300MB/s sequential and up to 1.2M IOPS random read speeds (1024GB-4096GB models) for compute systems requiring high performance NVMe™ storage. Equipped with high capacities up to 4096GB[1] on M.2 2280, the SANDISK PC SN8000S NVMe™ SSD is the ideal choice for customers building PCs, workstations, or systems designed for performance at scale.

Product Highlights

- SANDISK BiCS6 TLC 3D NAND
- PCIe Gen4 ×4 with NVMe™ 2.0
- Capacities: 512GB, 1024GB, 2048GB, 4096GB[1]
- Form Factor: M.2 2280 S3-M
- Sequential read speeds up to 7,300MB/s[2] and write speeds up to 6,800MB/s[2] (1024GB-4096GB[1] models)
- High endurance up to 2,400 TBW[4] (4096GB[1] model)
- SANDISK nCache™ 4.0 Technology
- Self-encrypting drive with TCG OPAL 2.02, Non-self-encrypting drive with TCG Pyrite 2.01, ATA Security

Features

Performance at Scale

Delivering PCIe® Gen4 sequential read speeds up to 7,300MB/s[2] (1024GB-4096GB models) and random read speeds up to 1.2M IOPS,[3] the SANDISK PC SN8000S NVMe™ SSD provides performance at scale for rapidly evolving applications and modern workloads like artificial intelligence, 3D modeling, gaming and professional content creation tools.

Scalability for your Workflow

Workflows with multiple applications and large datasets or files demand large amounts of storage space. The SANDISK PC SN8000S NVMe™ SSDs provide high capacities from 512GB to 4096GB[1] to help scale with your needs.

Keep Innovating

Multitasking is critical for professional creators that need to use multiple applications. The SANDISK PC SN8000S SSD with NVMe™ 2.0 delivers fast responses and low latencies for switching between applications.

Fast and Reliable

Corporations demand security for their most sensitive data and a safe way to decommission retired drives. The SANDISK PC SN8000S NVMe™ SSD includes the latest TCG Opal 2.02 standard for booting securely, data-at-rest encryption, and crypto erase to help protect your data every step of the way.

Built for Staying Power

With an endurance rating of up to 2400 TBW[4] (4096GB models) and a MTTF[7] of 1.75M hours, the SANDISK PC SN8000S NVMe™ SSD can be deployed in intensive compute environments without worrying about failure. Plus, all of our SSDs are backed by our 5-year limited warranty.[11]

	512GB[1]	1,024GB[1]	2048GB[1]	4096GB[1]
Product specifications				
Interface[12]	PCIe® Gen4.0 x 4, NVMe™ 2.0			
Form Factor	M.2 2280-S3-M			
NAND Type	SANDISK TLC 3D NAND			
Performance				
Seq. Read up to (MB/s)[2] (Queues=32, Threads=1)	7,000	7,300	7,300	7,300
Seq. Write up to (MB/s)[2] (Queues=32, Threads=1)	6,300	6,800	6,800	6,800
Rand Read up to 4KB (IOPS)[3] (Queues=32, Threads=16)	920K	1,200K	1,200K	1,200K
Rand Write up to 4KB (IOPS)[3] (Queues=32, Threads=16)	1,300K	1,300K	1,300K	1,300K
Power				
Peak Power[5]	10 W			
Average Active Power[5]	150 mW			
Sleep (PS4)[6]	3.5 mW			
Reliability				
Endurance[4] (TBW)	300	600	1,200	2,400
MTTF[7]	1.75M hours			
Limited Warranty[11]	5 years			
Security				
Non-SED	TCG Pyrite v2.01, ATA Passthrough over NVMe™			
SED (self-encrypting drive)	TCG Opal v2.02, ATA Passthrough over NVMe™			
Regulatory				
ROHS Compliant[8]	Yes			
Certifications	FCC, UL, TUV, KCC, BSMI, VCCI, C-Tick			
Environmental				
Operating Temperatures[9]	32°F to 176°F (0°C to 80°C)			
Non-Operating Temperatures[10]	-40°F to 185°F (-40°C to +85°C)			
Operating Vibration	5gRMS, 10 to 2,000Hz. 15min/axis on 3 axes			
Non-Operating Vibration	4.9gRMS, 7 to 800Hz. 15min/axis on 3 axes			
Shock	1,500G @0.5 ms half sine			
Physical Dimensions				
Length	80 ± 0.15mm			
Width	22 ± 0.15mm			
Height	1.36 mm			
Weight	7.25 g ± 0.35g			

Ordering Information

Form Factor	Security	512GB	1024GB	2048GB	4096GB
M.2 2280	non-SED	SDEPNRK-512G	SDEPNRK-1T00	SDEPNRG-2T00	SDEPNRG-4T00
M.2 2280	SED	SDEQNRK-512G	SDEQNRK-1T00	SDEQNRG-2T00	SDEQNRG-4T00

1. 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.
2. Based on read speed, unless otherwise stated. 1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.
3. IOPS = input/output operations per second.
4. TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.
5. Average Power is measured using MobileMark™ 25 on Windows 11 Pro (version 10.0.22621 Build 22621) Bios version Insyde Corp v1.06, Intel RST driver at 25°C. Peak power is the maximum instantaneous power measured while continuously processing sequential read and write commands (tested separately) for at least 1 minute, with a transfer size of 256 sectors per command (128KB), queue depth of 32 and 1 threads, with sampling interval of 10us.
6. Low Power referring to NVMe PS4 at 25°C.
7. MTTF = Mean Time To Failure based on internal testing using Telcordia™ stress part testing (Telcordia SR-332, GB, 25°C). MTTF is based on a sample population and is estimated by statistical measurements and acceleration algorithms. MTTF does not predict an individual drive's reliability and does not constitute a warranty.
8. This drive is in compliance with the European Union Directive 2011/65/EU and Directive (EU) 2015/863 on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment.
9. Operational temperature is defined as temperature reported by the drive. Note that drive temperature readings are expected to be higher than ambient temperature when the SSD is placed inside a system. The SSD box package is rated up to 60°C.
10. Non-operational storage temperature does not guarantee data retention.
11. 5 years or Max Endurance (TBW) limit, whichever occurs first. See support.WesternDigital.com for regional specific warranty details.
12. Backward compatible with PCIe Gen4 ×2, PCIe Gen3 ×4, PCIe Gen3 ×2, PCIe Gen3 ×1, PCIe Gen2 ×4, PCIe Gen2 ×2, and PCIe Gen2 ×1.

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