



Key Benefits and Features:

- Read speeds up to 6,600 MB/s¹ (1TB² and 2TB² models)
- Remarkable reliability features to help protect your content
- NVMe™ power management
- Slim M.2 2280 form factor
- Save on space with a single-sided M.2 2280 PCIe® Gen4 x4 NVMe™ SSD

Western Digital® PC SN810 NVMe™ SSD Performance Has Evolved

PCIe® Gen4 and the NVMe™ Architecture

The Western Digital PC SN810 NVMe™ SSD brings a new standard in performance and pushes the boundaries of client computing with a scalable NVMe™ architecture that is ready for tomorrow's higher demand storage applications.

An easy choice for computing customers looking for thin and light storage devices, the Western Digital PC SN810 comes in a variety of high-capacity points ranging from 256GB² to 2TB² so no one has to sacrifice performance for storage.

Designed around the PCIe® Gen4x4 interface, the Western Digital PC SN810 is ideal for applications that require high performance. Users will see the benefits of this performance boost in applications such as gaming, high-definition video content creation, postproduction processing and high demand computing such as software development and rendering.

Dedicated Quality

Designed as a fully integrated solution, the Western Digital PC SN810 NVMe™ SSD includes an in-house controller, firmware and thorough testing ensuring a robust supply and reliable design. The Western Digital PC SN810 NVMe™ SSD brings a new level of performance with sequential read speeds of 6,600 MB/s¹ and sequential write speeds of 5,000 MB/s¹ and a high endurance of up to 500 TBW³. All of this is available in the compact M.2 2280 form factor.

Summary

Delivering incredible performance to tackle the most challenging applications, the Western Digital PC SN810 NVMe™ SSD pulls no punches and brings a reliable design with high-capacity points from 256GB² to 2TB².

Western Digital® PC SN810 NVMe™ SSD

PRODUCT BRIEF

NVMe™ SSD

Product Features and Specifications

Form Factor	M.2 2280			
Interface ⁴	PCIe® Gen4 x4 NVMe™			
Formatted Capacities ²	256GB, 512GB, 1TB, 2TB			
Performance⁵	250GB²	500GB²	1TB²	2TB²
Sequential Read up to (MB/s) ⁶	5,700	6,000	6,600	6,600
Sequential Write up to (MB/s) ⁶	1,900	4,000	5,000	5,000
Random Read up to (IOPS)	400K	750K	760K	760K
Random Write up to (IOPS)	490K	630K	650K	650K
Endurance ³ (TBW)	200	300	400	500
Power				
Average Active Power ⁷ (mW)	200	200	200	200
Low Power (PS3™) (mW)	25	25	25	25
Sleep (PS4) (mW)	5	5	5	5
Maximum Operating Power (mW)	7,000	8,000	8,000	8,250
Reliability				
MTTF ⁸	Up to 1,752,000 hours			
Environmental				
Operating Temperature ⁹	32°F to 176°F (0°C to 80°C)			
Non-Operating Temperature ¹⁰	-67°F to 185°F (-55°C to +85°C)			
Operating Vibration	5 gRMS, 10–2000Hz, 15min/axis on 3 axes			
Non-Operating Vibration	4.9 gRMS, 7–800Hz, 15min/axis on 3 axes			
Shock	1,500G @0.5 ms half sine			
Certifications	Windows® HCK, Windows HLK, FCC, UL, TUV, KCC, BSMI, VCCI, C-Tick			
Limited Warranty ¹¹	5 years			
Physical Dimensions				
Width	22mm ±0.15mm			
Length	80mm ±0.15mm			
Thickness (max)	2.38mm			
Weight	6.5g ±0.5g			
Ordering Information	256GB²	512GB²	1TB²	2TB²
Security Type: Non-SED	SDCPNRY-256G	SDCPNRY-512G	SDCPNRY-1T00	SDCPNRZ-2T00
Security Type: SED	SDCQNRY-256G	SDCQNRY-512G	SDCQNRY-1T00	SDCQNRZ-2T00

¹ As used for transfer speed, megabyte per second (MB/s) = one million bytes per second. Performance will vary depending on your hardware and software components and configurations.

² 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.

³ TBW (terabytes written) values calculated using JEDEC client workload (JESD219) and vary by product capacity.

⁴ Backward compatible with PCIe® Gen3 x4, PCIe® Gen3 x2, PCIe® Gen3 x1, PCIe® Gen2 x4, PCIe® Gen2 x2 and PCIe® Gen2 x1

⁵ Test Conditions: Performance is measured by CrystalDiskMark™ 7.0.0f using 1GB LBA range. Windows® 10 using Microsoft® driver build 18362.116, Primary drive FOB. ASUS™ ROG Crosshair VIII Hero X570 platform with AMD Ryzen™ 9 3950X 16-Core, HyperX Fury 32GB 3200MHz DDR4 CL 16 DIMM. Performance may vary based on host device, usage conditions, drive capacity, and other factors. 1 MB = 1,000,000 bytes. IOPS = input/output operations per second.

⁶ Based on read/write speed. 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.

⁷ Measured using MobileMark™ 2014 on AMD Ryzen™ 5 3500 6-core, 16GB DRAM, NVIDIA™ GeForce GT 710, C-State on, Windows® 10 Pro.

⁸ 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.

⁹ Operational temperature is measured by an on board temperature sensor. 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. 5 year warranty in regions not recognizing "limited." See <http://support.westerndigital.com> for more details.

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