Western Digital® PC SN720 NVMe™ SSD

Unleashed Performance

NVMe Architecture

With future-ready, scalable NVMe architecture, the Western Digital PC SN720 NVMe SSD is breaking through performance limits of client computing and enabling partners to support higher storage applications in today's mobile and ultrathin computing markets while supporting an extreme sleep mode of 2.5mW.

The Western Digital PC SN720 NVMe SSD offers an exceptional performance option for all computing customers who seek a compact storage device with high capacity points from 256GB to 2TB.

The Western Digital PC SN720 NVMe SSD, supporting PCIe Gen3 x4, is designed for applications that require both high performance and low power. Applications that could benefit from NVMe technology include gaming, Ultra HD or 4K video and VR content creation, post production processing and high-bandwidth corporate computing such as for software development and compilation.

Unmatched Performance

Equipped with a fully integrated solution that includes an in-house controller, 64-layer 3D NAND, firmware, and extensive testing, Western Digital provides longevity of supply in a robust and reliable design.

Designed with Western Digital's in-house tiered-caching NVMe architecture, the Western Digital PC SN720 NVMe SSD delivers extreme performance with screaming sequential read and write speeds up to 3,400MB/s and 2,800MB/s respectively and high endurance up to 500 TBW, all of which is available in a M.2 2280 form factor.

Summary

The Western Digital PC SN720 NMVe SSD packs the knockout punch in a compact design that enables outstanding performance for the most intensive compute applications seeking a reliable storage device with capacity points from 256GB to 2TB.

WESTERN DIGITAL PC SN720 NVMe SSD KEY BENEFITS & FEATURES

READ SPEEDS UP TO 3,400MB/S SATURATES THE PCIe GEN3 x4 INTERFACE SUPPORTING NVMe ARCHITECTURE

256GB-2TB CAPACITIES AVAILABLE IN M.2 2280 FORM FACTOR

ENDURANCE OF UP TO 500 TBW

5 YEAR LIMITED WARRANTY

Western Digital PC SN720 NVMe SSD

Specifications are subject to change

Form Factors				M.2 2280
Interface				PCIe Gen3 x4 NVMe v1.3
Formatted Capacities[1]				256GB, 512GB, 1TB, (2TB version for later release)
Performance[2]	256GB	512GB	1TB	2TB
Sequential Read up to (MB/s)	3,000	3,400	3,400	TBD
Sequential Write up to (MB/s)	1,600	2,400	2,800	TBD
Random Read up to (IOPS)	225K	400K	500K	TBD
Random Write up to (IOPS)	185K	330K	400K	TBD
Endurance[3] (TBW)	200	300	400	500
Power	256GB	512GB	1TB	2TB
Peak Power (10µs) (A)	2.8	2.8	2.8	TBD
Avg. Active Power[4,5] (mW)	110	110	140	TBD
Low Power (PS3)[5] (mW)	70	70	100	TBD
Sleep (PS4)[5] (mW)	2.5	2.5	2.5	2.5
Supply Voltage (V / ±5%)	3.3	3.3	3.3	3.3
Reliability				
MTTF[6]				Up to 1.752M hours
Environmental				
Operating Temperature[7]				32ºF to 158ºF (0ºC to 70ºC)
Non-operating Temperature[8]				-67ºF to 185ºF (-55ºC to 85ºC)
Operating Vibration				5 gRMS, 10–2000 Hz, 3 axes
Non-operating Vibration				4.9 gRMS, 7–800 Hz, 3 axes
Shock				1,500G @0.5 ms half sine, 3 pulses per face
Certifications				FCC, UL, TUV, KCC, BSMI, VCCI, C-Tick
Limited Warranty[9]				5 years
Physical Dimensions				
Width				22mm ±0.15mm
Length				2280: 80mm ±0.15mm
Thickness (max)				2.38mm
Weight				7.5g ±1g

SKU	Form Factor	Capacity
SDAPNTW-256G	M.2 2280 S3-M	256GB
SDAPNTW-512G	M.2 2280 S3-M	512GB
SDAPNTW-1T00	M.2 2280 S3-M	1TB
SDAPNTW-2T00	M.2 2280 S3-M	2TB

Western Digital.

[1] As used for storage capacity, one gigabyte (GB) = one billion bytes and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment.

[2] Test Conditions: Performance is based on the CrystalDiskMark 5.2.2 benchmark using a 1000MB LBA range ASUS Z170A desktop with Intel® i7–6700K 4.0GHz, 8GB 2133MHz DDR4. Windows 10 Pro 64-bit using Microsoft StorNVMe driver, secondary drive. Performance may vary based on host device. 1 MB = 1,000,000 bytes. IOPS = input/output operations per second.

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

[4] Measured using MobileMark™ 2014 on HP EliteBook X360 1030 G2 with i7–7600U, 8GB RAM. Windows 10 Pro, 64-bit RS3 using Microsoft StorNVMe driver, primary drive.

[5] Power measurements at 25ºC.

[6] MTTF = Mean Time To Failure based on internal testing using Telcordia stress part testing. 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. (Telecordia SR-332, GB, 40ºC)

[7] Operational temperature as reported by device (composite temperature.)

[8] Non-operational storage temperature does not guarantee data retention.

[9] 5 years or Max Endurance (TBW) limit, whichever occurs first. 5 year warranty in regions not recognizing "limited." See http://support.wdc.com for more details.

Product specifications subject to change without notice. Not all products are available in all regions of the world.