



# Western Digital® PC SN720 NVMe™ SSD

## Performance Reimagined

### Cutting-edge NVMe Architecture

With future-ready, scalable NVMe architecture, the Western Digital PC SN720 NVMe SSD is breaking through performance limits of commercial and embedded applications, and supporting higher storage uses in today's IoT market, while providing a compact storage device with high capacity points from 256GB to 2TB.

### Powerful Construction Suited for IoT

The Western Digital PC SN720 NVMe SSD, supporting PCIe Gen3 x4, is designed for applications that require both high performance and low power. Partners that could benefit from NVMe technology include:

- **Edge Equipment and IoT Gateway:** Such as network equipment, industrial machinery, medical equipment, or embedded PC that need the high capacities to capture the floor's and sensors' data and the high IOPS to support the system's data analytics
- **Media Content Delivery and Streaming:** In-flight entertainment systems, train control and monitoring systems, data recorder and video surveillance that require high capacity and reliability
- **Commercial:** Interactive kiosks, ATMs and Point-of-Sales (POS), Multi-Functional Printers (MFP) and industries that require high-volume transaction processing

### Pushing the Performance for IoT

Equipped with a fully integrated solution which includes in-house controller, 64-layer 3D NAND, firmware, and 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 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 NVMe SSD packs a powerful punch in a compact design, which enables outstanding performance for the most demanding IoT and embedded applications that seek 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**

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Specifications are subject to change

<b>Form Factors</b>					M.2 2280
<b>Interface</b>					PCIe Gen3 x4 NVMe v1.3
<b>Formatted Capacities<sup>1</sup></b>					256GB, 512GB, 1TB, (2TB version for later release)
<b>Performance<sup>2</sup></b>	256GB	512GB	1TB	2TB	
Sequential Read up to (MB/s)	3,000	3,400	3,400		
Sequential Write up to (MB/s)	1,600	2,400	2,800		
Random Read up to (IOPS)	225K	400K	500K		Coming Soon
Random Write up to (IOPS)	185K	330K	400K		
Endurance <sup>3</sup> (TBW)	200	300	400		
<b>Power</b>	256GB	512GB	1TB	2TB	
Peak Power (10µs) (A)	2.8	2.8	2.8		
Avg. Active Power <sup>4,5</sup> (mW)	110	110	140		
Low Power (PS3) <sup>5</sup> (mW)	70	70	100		Coming Soon
Sleep (PS4) <sup>5</sup> (mW)	2.5	2.5	2.5		
Supply Voltage (V / ±5%)	3.3	3.3	3.3		
<b>Reliability</b>					
MTTF <sup>6</sup>					Up to 1.752M hours
<b>Environmental</b>					
Operating Temperature <sup>7</sup>					32°F to 158°F (0°C to 70°C)
Non-operating Temperature <sup>8</sup>					-67°F to 185°F (-55°C to 85°C)
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 <sup>9</sup>					5 years
<b>Physical Dimensions</b>					
Width					22mm ±0.15mm
Length					2280: 80mm ±0.15mm
Thickness (max)					2.38mm
Weight					7.5g ±1g
<b>SKU</b>	<b>Form Factor</b>	<b>Capacity</b>			
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

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<sup>1</sup> 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.

<sup>2</sup> 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.

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

<sup>4</sup> 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.

<sup>5</sup> Power measurements at 25°C.

<sup>6</sup> 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. (Telcordia SR-332, GB, 40°C)

<sup>7</sup> Operational temperature as reported by device (composite temperature.)

<sup>8</sup> Non-operational storage temperature does not guarantee data retention.

<sup>9</sup> 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.