

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



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

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

Specifications are subject to change

FCC, UL, TUV, KCC, BSMI, VCCI, C-Tick

Form Factors				M.2 2280
Interface				PCle Gen3 x4 NVMe v1.3
Formatted Capacities ¹			256GB, 512GB, 1TB, (2	2TB version for later release)
Performance ²	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 ³ (TBW)	200	300	400	
Power	256GB	512GB	1TB	2TB
Peak Power (10µs) (A)	2.8	2.8	2.8	
Avg. Active Power ^{4,5} (mW)	110	110	140	
Low Power (PS3)5 (mW)	70	70	100	Coming Soon
Sleep (PS4) ⁵ (mW)	2.5	2.5	2.5	
Supply Voltage (V / ±5%)	3.3	3.3	3.3	
Reliability				
MTTF ⁶				Up to 1.752M hours
Environmental				
Operating Temperature ⁷	32°F to 158°F (0°C to 70°C)			
Non-operating Temperature ⁸	-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			

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



Certifications

Limited Warranty9

Western Digital.

Western Digital 5601 Great Oaks Parkway San Jose, CA 95119, USA www.wdc.com

Western Digital and the Western Digital logo are the registered trademarks of Western Digital Corporation or it's affiliates in the U.S. and/or other countries. All marks are the property of their respective owners. Pictures shown may vary from actual products. The NVMeTM word mark is a trademark of NVM Express, Inc.

- 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 25°C.
- 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, 40°C)
- 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.

©2018 Western Digital Corporation or its affiliates.

ПОСТАВКА ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г. Москва, ул. Щербаковская д. 3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru moschip.ru_6 moschip.ru_4 moschip.ru_9