



# HP SSD EX900 Pro M.2 PCIe

HP SSD EX900 Pro M.2 is a new generation of ultra-high performance storage device with independent cache. It supports PCIe Gen3 x4 interface (theoretical bandwidth of 32Gbps) and the new NVMe 1.3 protocol. Its read speed is as high as 2250MB/s and random read is as high as 180K IOPS. It is suitable for e-sports notebook, high-end desktop and other devices to meet the requirements of gamers, enthusiasts, and professional creators for supreme performance and reliability.



## Features

### > PCIe Super Master Controller with 4 Flash Memory Channels

HP EX900 Pro M.2 is equipped with a PCIe controller chip with 4 flash memory channels, utilizing PCIe Gen3 x4 interface (theoretical bandwidth of 32Gbps) and the new NVMe 1.3 protocol, supports NANDXtend™ error correction code (ECC) technology, SRAM ECC and end-to-end data path protection technology, and gives full play to the potential performance of gaming laptops and high-end desktops.

### > Utilizing 3D Flash Memory Modules

HP EX900 Pro M.2 is entirely made of new process 3D NAND flash memory modules. Compared with 2D NAND flash memory particles, HP Ex 900 Pro M.2 has a denser storage architecture, a more reliable vertical stacking method, and brings higher performance. It can provide up to 1TB capacity and easily store a large number of media files and games.

### > Universal Compatibility

Before leaving the factory, HP EX900 Pro M.2 has passed rigorous performance tests, compatibility tests, reliability tests, application tests, etc., and is compatible with gaming laptops and high-end desktop computers. It supports performance upgrading to improve the overall operation efficiency.

### > Independent Cache

HP EX900 Pro M.2 has its own independent cache so that small files can be temporarily stored in the cache, which can effectively reduce continuous writing, thus prolong the service life of SSD.

## Applications

With the compact size of only 80x22x2.4mm, the EX900 Pro M.2 SSD is a new generation of ultra-thin, light and high-performance storage device with stronger performance, lower latency and lower power consumption, which greatly improves the storage performance of desktop and notebook computers.

Note: Please check whether the M.2 interface on the device motherboard supports PCIe bus before purchasing. If not, it cannot be recognized.

## HP Advantages

HP SSD is constantly progressing in storage technology. Whether in the server market or the consumer market, it can provide customers with the latest high-performance storage solutions. Compared with traditional hard disk drives, HP SSD can improve the operating performance of your entire system, including superior read/write speed, improved startup time, faster application import, longer battery life, and better anti-shock performance.

As a leading brand in the PC industry, HP SSD quality assurance Initiative is implemented from the R&D design stage to the production, sales, and post sales processes. Feedbacks are sent back to R&D team for future improvements. It is HP's quality management principle to let quality design get embodied in every product. HP SSD supports HP computer DST self-test to ensure the reliability of products in use.

HP has a perfect post-sales system and many service outlets globally. Any questions about products will be resolved to customers' satisfaction. We also provide a toll free customer support hotline, and you can learn more details through our HP website.



# EX900 Pro M.2 PCIe Product Specifications

Specifications	HP SSD EX900 Pro M.2		
	256GB	512GB	1TB
<b>Interface</b>			
HP SSD EX900 Pro M.2	PCIe Gen3.0 x4 NVMe 1.3		
<b>Performance</b>			
Sequential Read Speed (MB/s)	2240	2240	2250
Sequential Write Speed (MB/s)	1350	1960	2060
Random Read Speed (IOPS)	88K	172K	180K
Random Write Speed (IOPS)	150K	151K	163K
<b>Power</b>			
Power Consumption (Active) (W)	3.22	4.29	4.38
Power Consumption (Idle) (W)	0.66	0.67	0.68
<b>Reliability</b>			
MTBF	Up to 2,000,000 hours		
<b>Environment</b>			
Storage Temperature	-40°C - 85°C		
Working Temperature	0°C - 70°C		
Anti-vibration Intensity	3.1G RMS ( 2-500Hz )		
Anti-shock Strength	100G/6msec		
Certifications	CE, FCC, RoHS, KCC, VCCI, RCM, BSMI, cTUVus等		
Warranty/Support	5 years or 160TBW	5 years or 320TBW	5 years or 650TBW
<b>Physical Dimensions</b>			
Size	80x22x2.4mm (single-sided)		
Weight	≤ 5.4g		

Specifications are subject to change without prior notice.

- Not all products are available in all regions of the world.
- When used to represent storage capacity, 1 Megabyte (MB) = 1 million bytes, 1 Gigabyte (GB) = 1 billion bytes, and 1 Terabyte (TB) = 1 trillion bytes. The total capacity available will vary depending on the operating environment. In buffer or cache, 1 Megabyte (MB) = 1,048,576 bytes. In transfer rate or interface, 1 Megabyte/second (MB/s) = 1 million bytes/second and 1 Gigabyte/second (Gb/s) = 10 billion bytes/second.
- Measured by MobileMark™ 2012 Benchmark Test with DIPM (Device Initiated Power Management) Enabled.
- MTBF = Mean Time Between Failure based on internal tests using Telcordia stress test.
- Please refer to <https://support.hp.com/cn-zh> for regional details of warranty services.

