



HP SSD S700 M.2 Series

Designed to enhance the response speed of notebooks and desktops, HP S700 SSD provides high speed for startup, loading and transmission, comprehensively accelerates the computer system and brings smooth and responsive operation experience. In strict compliance with HP quality standards, S700 SSD features high reliability and compatibility and 3-year limited warranty service. HP provides data system migration software free of charge to guarantee convenient system upgrade.

Interface:
SATAIII 6Gb/s

Form Factor:
M.2 2280

Capacity:
120GB/250GB/500GB (S700)
128GB/256GB/512GB (S700 Pro)



Product Features

> HP Controller to optimize operation algorithm

S700 series features a dual-core HP controller with four flash memory channels. The reading speed of S700 and S700 Pro is 560MB/s and 564MB/s respectively, and the writing speed is 510MB/s and 509MB/s respectively, improving your computer's responsiveness.

> Adopt 3D Nand Flash

The 3D Nand Flash configured in HP S700 series SSD provides higher storage density and larger capacity, better reliability and durability than 2D NAND Flash.

> Excellence in reliability

The S700 series supports NCQ full-speed command queues and TRIM instructions to provide continuous and fast response to notebooks and PCs. In addition, S700 has LDPC error correction mechanism which enhances the drive's longevity and reliability to meet the expectations of demanding users.

> Make the data more secure

HP secure end to end internal firmware and professional-level security key write process can effectively protect against viruses and hacks. HP S700 series offer a 3-year limited warranty with HP brand quality assurance.

Applications

With a size of 22x80x3.5mm (2280), S700 M.2 SSD is smaller and thinner than S700 2.5" SATA SSD. It is a storage solution with high performance built for the new generation of computer systems, like ultrabook and NUC mini-desktops.

HP SDD Advantage

HP SSD is the latest solution for storage technology, and it has significant benefits over traditional hard drives. Solid-state drives can improve the performance of your entire system, providing: superior performance, improved start-up time, faster application load times, longer battery life, and better system reliability. As the leader in the PC industry, HP SSD quality assurance begins at the R & D design stage and continues through the whole production process. Quality is designed into every product in accordance with HP's corporate philosophy. S700 series fully supports HP computer DST self-test to ensure that the product will seamlessly support all HP branded PC systems. By the same token, since HP computers use the majority of contemporary computer platforms, the HP SSD is a highly compatible drive regardless of PC brand. HP has an excellent global network of service outlets to support users with questions about the product. We also offer a toll-free customer support hotline, and you can find more details from our HP website.



S700 M.2 Series

Specifications

Specifications	HP SSD S700			HP SSD S700 Pro		
	120GB	250GB	500GB	128GB	256GB	512GB
DRAM	/	/	/	256MB	256MB	512MB
Interface/Protocol						
HP S700 SSD M.2 2280	SATA 6.0 Gb/s	SATA 6.0 Gb/s	SATA 6.0 Gb/s	SATA 6.0 Gb/s	SATA 6.0 Gb/s	SATA 6.0 Gb/s
Performance (4KB QD32)						
Max. Sequential Read (MB/s)	555	560	560	563	563	564
Max. Sequential Write (MB/s)	470	510	510	436	509	504
Max. Random Read (IOPS)	35K	50K	70K	40K	80K	85K
Max. Random Write (IOPS)	75K	80K	85K	80K	90K	90K
TBW	70	145	295	80	165	340
Power Consumption						
Power Consumption (Active) (W)	1.45	1.58	1.63	1.73	2.5	3.6
Power Consumption (Idle) (W)	0.33	0.33	0.33	0.44	0.44	0.44
DEVSLP (mW)	5	5	5	5	5	5
Reliability						
MTBF	up to 2.0M hours					
Environmental						
Non-Operating Temperature	-40° C to 85° C					
Operating Temperature	0° C to 70° C					
Max Shock Resistance	100 G/6 msec					
Max Vibration Resistance	3.1 G RMS (2-500 Hz)					
Certificates	CE, CB, FCC, cTUVus, KCC, BSMI, VCCI, RoHS, RCM					
Limited Warranty	3years					
Physical Dimensions						
Size	80 x 22 x 3.35 mm					
Weight	≤ 5 g			≤ 5.4 g		

Specifications are subject to change without notice.

1. Backwards compatible with SATA II and I.
2. Not all products are sold in all regions of the world.
3. When used to represent storage capacity, 1 megabyte (MB) = 1 million bytes, 1 gigabyte (GB) = 1 billion bytes. Depending on the operating environment, the total capacity that can be used will vary. Used to indicate buffer or cache when 1 megabyte (MB) = 1,048,576 bytes. Used to represent the transmission rate or interface, 1 megabyte/s (MB/s) = 1 million bytes per second, 1 gigabytes per second (Gb/s) = 1 billion bytes per second. The maximum valid value for the SATA 6 GB/s transfer rate is calculated based on the serial ATA specification published by the SATA-IO organization prior to the date of publication of this specification. For more information, please visit www.sata-io.org.
4. Measured using the MobileMark™ 2012 benchmark with DIPM enabled (device-initiated power management).
5. MTBF = Mean Time Between Failures, based on internal tests using the Telcordia stress test.
6. Please visit <https://support.hp.com> for details on warranty service of specific areas.

