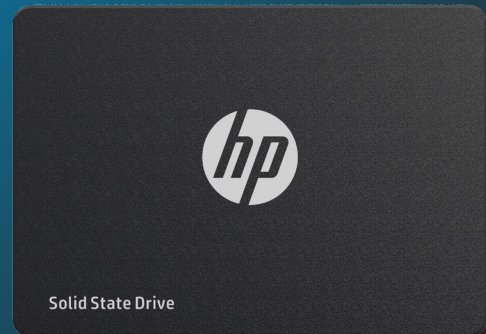# S650 2.5" SATA SSD

HP S650 2.5" SSD adopts SATA III 6 GB/s interface, and offers a maximum capacity of up to 1.92 TB. As the latest generation of SATA SSD, S650 is built with a high-performance controller and high-quality 3D NAND to upgrade PCs with ease. Built with strict quality control standards, it also comes with a 3-year limited warranty to ensure excellent reliability and stability.

Solid State Drive

High performance & low power	Read speeds up to 560 MB/s	Capacity of up to 1.92 TB	Wide compatibility	Free Acronis cloning

Product Features

> Boot up faster, load files quicker

High-quality 3D NAND and best-in-class controller help your system response faster. You can boot up faster and transfer big files effortlessly. Featuring lower latency, the HP S650 2.5" SSD is ready to refresh your booting experience and to take mission-critical tasks.

> High-speed performance

The HP S650 uses the SATA 3.0 interface to enable sequential read speeds up to 560 MB/s and sequential write speeds up to 500 MB/s. Equipped with 3D NAND Flash, HP S650 also supports LDPC ECC (Error Correction Code), effectively reducing latency by simulating SLC cache.

> Capacity up to 1920 GB

With capacities ranging from 120 GB to a staggering 1920 GB, the HP S650 provides the reliable storage you need to save your important photos, videos, movies, documents and other files. Even gamers and designers will find the HP S650 is undoubtedly the choice for performance.

> Wide compatibility

With a certification from the HP Testing Lab, the HP S650 2.5" SSD is compatible with mainstream desktops and laptops. It also an ideal storage solution to PC upgrading and data management.

> Free Acronis cloning software

Built with Acronis True Image, our customized Acronis version is optimized for our HP SSDs. It lets you easily transfer data, back-up or clone your data.

HP Advantage

HP, the world's leading IT company, the world's top 500, business covers IT infrastructure equipment, storage, commercial and home computers, printers, digital imaging and other fields, PC shipments for many years in the world's top, the world's billion industry elite are using.

HP continues to forge ahead in storage technology and make every effort to create new storage products, and will continue to be committed to providing high-quality, reliable storage products and services to consumers around the world.

HP has a comprehensive after-sales system and service outlets in the global region to provide users with a full range of after-sales services.

S650 2.5" SATA SSD Product Specifications

Interface	SATA III, 6.0 Gb/s				
Form Factor	2.5 inches				
Capacity	120 GB	240 GB	480 GB	960 GB	1920 GB
Sequential Read Speed	550 MB/s	560 MB/s	560 MB/s	560 MB/s	560 MB/s
Sequential Write Speed	460 MB/s	460 MB/s	490 MB/s	500 MB/s	500 MB/s
Max. Random Read Speed (IOPS)	50 K	50 K	60 K	60 K	65 K
Max. Random Write Speed (IOPS)	70 K	71 K	71 K	72 K	70 K
Dimensions	100 x 70 x 6.7 mm				
Weight	⩽ 50 g				
MTBF	⩾ 1,000,000 hours				
Storage Temperature	-40 ℃ to 85 ℃				
Working Temperature	0 ℃ to 70 ℃				
Vibration Resistance	3.1 GRMS (2-500 Hz)				
Shock Resistance	100 G / 6 ms				
Certifications	CE, FCC, RoHS, cTUVus, KCC, BSMI, VCCI, RCM				
Warranty / Support	3 Years / 40 TBW	3 Years / 80 TBW	3 Years / 150 TBW	3 Years / 300 TBW	3 Years / 600 TBW

Specifications are subject to change without notice.

1、 Backward compatible to Gen2 and Gen1.

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.