

Thunderbolt™ 3 external storage

Samsung Portable SSD X5 is a revolutionary external storage with integrated cutting-edge NVMe™ ¹⁾ and Thunderbolt™ 3 ²⁾ technologies. The X5 is designed for content creators and high-tech professionals who need fast and secure access to data in a lightweight and compact storage solution. It also leads the industry with a 2TB capacity option.

Its lightning-fast speed, high capacity and storing data protection allow leading content creators to handle high-resolution contents faster and more securely on the go.

¹⁾ The NVMe Express® design mark is a registered trademark of NVMe Express, Inc.
²⁾ Thunderbolt and the Thunderbolt logo are trademark of Intel Corporation in the U.S. and/or other countries.



Thunderbolt™ 3

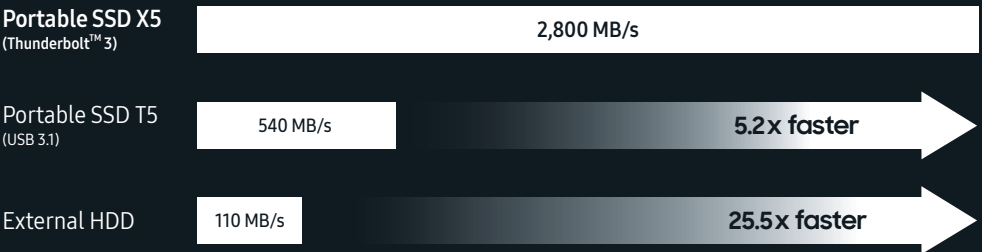


Lightning Speed

Samsung Portable SSD X5 leverages technological synergies between NVMe™ and Thunderbolt™ 3 technologies, offering a remarkably fast interface of up to 40Gbps bandwidth. The X5 delivers read/write speeds of up to 2,800/2,300 MB/s respectively, which is more than five times faster than current USB 3.1 PSSD (SATA-based) and more than twenty-five times faster than an external HDD ³⁾.

³⁾ Based on internal test results (Read performance).

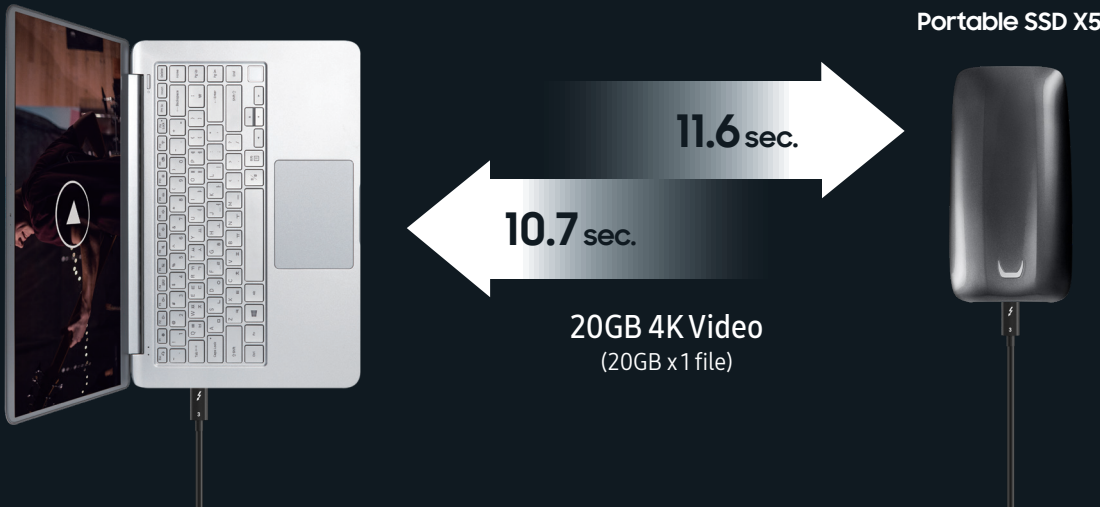
Transfer speed : Read



Use case : 20GB 4K video transfer

When you download a file from PC to X5 | **11.6 sec.** ⁴⁾
When you upload a file from X5 to PC | **10.7 sec.** ⁴⁾

⁴⁾ Based on the average value from multiple tests.



Revolutionary Design

Inspired by a supercar, the X5's dynamic design is optimized for performance and reliability. Using a durable yet light magnesium full metal body and internal structure, the X5 withstands drops of up to two meters (6.6 feet) ⁵⁾.

⁵⁾ The internal free fall shock test was conducted under controlled conditions.

Well-engineered Reliability

The X5 integrates the advanced thermal management technologies. The Dynamic Thermal Guard technology safeguards against overheating by automatically maintaining optimal operating temperatures, while a heat sink - a mechanical internal solution - further lowers the overall SSD temperature as a way to minimize thermal influence while maximizing performance. With Dynamic Thermal Guard and the mechanical solution technology, the surface temperature of the X5 is kept below 45°C. ⁶⁾

⁶⁾ It is based on data evaluated at room temperature. It can be changed according to the ambient temperature.

Magnesium **metal body design**
Non-slip due to **matte bottom**



Shock resistance from **up to 2m**
Surface temperature **below 45°C**



Strong Data Protection

The X5 offers powerful data protection through Samsung Portable SSD software. You can conveniently manage access to your X5 using password protection based on AES 256-bit hardware encryption.

Specifications

Interface	Thunderbolt™ 3 (40Gbps)		
Compatibility	H/W) Macs and Windows PCs with Thunderbolt™ 3 ports (Not backward compatible/ does not work on PCs only support USB) OS) macOS X Sierra (10.12) or higher / Windows 10 RS 2 or higher		
Hardware Information	Capacities	500GB/1TB/2TB ¹⁾	
	Dimensions	119 x 62 x 19.7 mm (4.7 x 2.4 x 0.8 in)	
	Weight	150 grams (5.3 oz) ²⁾	
Performance	Sequential Read	Up to 2,800 MB/sec ³⁾	
	Sequential Write	Up to 2,300 MB/sec ³⁾ (500GB : Up to 2,100 MB/s)	
Security	Encryption	AES 256-bit hardware encryption	
	Security	Password protection (Optional)	
Reliability	Temperature	Operating	0°C to 60°C
		Non-Operating	-40°C to 85°C
	Humidity	Non-Operating	65°C, 95%
	Shock	Non-Operating	1,500G, duration: 0.5ms, 3 axis
	Vibration	Non-Operating	10~2,000Hz, 20G
Certifications		CE, BSMI, KC, VCCI, C-tick, FCC, IC, UL, TUV, CB	
RoHS Compliance		RoHS 2	
Warranty		Three (3) Year Limited Warranty ⁴⁾	

1) 1 GB=1,000,000,000 bytes, 1 TB=1,000,000,000,000 bytes. Lower capacity may be demonstrated by your computer due to use of a different measurement standard.
2) Exact weight of product may vary by capacity.
3) Max data transfer speed is measured under Samsung's internal testing conditions with the enclosed Thunderbolt™ 3 cable. Performance may vary depending on host configuration, cable and user system environment.
4) Samsung Electronics shall not be liable for any loss, including but not limited to loss of data or other information contained on Samsung Electronics product or loss of profit or revenue which may be incurred by user. For more information on the warranty, please visit www.samsung.com/portable-ssd.

For more information

For more information about Samsung Portable SSD X5, please visit www.samsung.com/portable-ssd.

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Drive at lightning speed

