

# Samsung Portable SSD X5

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2018 Data Sheet

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## INTRODUCTION

Samsung Portable SSD X5 is a revolutionary external storage with integrated cutting-edge NVMe™ and Thunderbolt™ 3 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. The X5 also leads the industry with a 2TB capacity option.

Its lightning-fast speed, high capacity and data protection allows content leaders to handle high-resolution contents faster and more securely on-the-go workplace

### Unrivaled Speed

Samsung Portable SSD X5 leverages technological synergies between NVMe™ and Thunderbolt™ 3 technologies, offering a remarkably fast interface of up to 40Gbps bandwidth.

X5 delivers read/write speeds of up to 2,800/2,300MB/s respectively, which are more than five times faster than current USB 3.1 PSSD (SATA-based) and more than twenty-five times faster than an external HDD<sup>1)</sup>.

### Revolutionary Design and Well-Engineered Reliability

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)<sup>2)</sup>.

The X5 integrates the latest thermal management technologies. The Dynamic Thermal Guard technology safeguards against overheating by automatically maintaining optimal operating temperatures, while a heat sink - a mechanical solution - minimizes the overall heat generation internally.

### 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.

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<sup>1)</sup> Based on internal test results (Read performance)

<sup>2)</sup> The internal free fall shock test was conducted under controlled conditions.

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※ Thunderbolt and the Thunderbolt logo are trademark of Intel Corporation in the U.S. and/or other countries.

## TECHNICAL SPECIFICATIONS

Samsung Portable SSD X5			
Interface	Thunderbolt™ 3 (40Gbps)		
Compatibility	H/W) Macs and Windows PCs with Thunderbolt 3 ports OS) macOS X Sierra (10.12) or higher Windows 10 RS 2 or higher		
Hardware Information	Capacities	500GB/1TB/2TB	
	Dimensions	119 x 62 x 19.7 mm (4.7 x 2.4 x 0.8 in)	
	Weight	150 grams (5.3 oz) <sup>3)</sup>	
Performance	Sequential Read	Up to 2,800 MB/sec <sup>4)</sup>	
	Sequential Write	Up to 2,300 MB/sec <sup>5)</sup> (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	

<sup>7)</sup> 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.

<sup>8)</sup> Exact weight of product may vary by capacity.

<sup>9)</sup> Max data transfer speed is measured based on Samsung's internal testing standards with the enclosed Thunderbolt™ 3 cable. Performance may vary depending on host configuration, cable and user system environment.

## PRODUCT LINEUP

Density	Model Name	Model Code	Box Contents
2TB	MU-PB2T0B	MU-PB2T0B/WW MU-PB2T0B/AM MU-PB2T0B/EU	Samsung Portable SSD X5 Thunderbolt™ 3 (40Gbps) USB-C Cable Quick Start Guide & Warranty Statement
1TB	MU-PB1T0B	MU-PB1T0B/WW MU-PB1T0B/AM MU-PB1T0B/EU	
500GB	MU-PB500B	MU-PB500B/WW MU-PB500B/AM MU-PB500B/EU	