Samsung Portable SSD P7

2026 Datasheet

Revision 2.0



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TECHNICAL SPECIFICATIONS

Samsung Portable SSD P7						
Interface	USB4 Gen 3x2 (40Gbps)					
Hardware Information	Capacity[1]		1TB	2TB	4TB	8TB
	Dimensions		90 x 65 x 8.3mm			
	Weight		98 grams[2]			
Performance (Up to.)[3]	Sequential Read		4,000 MB/s	4,000 MB/s		
	Sequential Write		3,700 MB/s	3,800 MB/s		
Durability	Drop Resistant		Up to 2m[4]			
Security	Encryption		AES 256-bit hardware encryption			
	Software		Samsung Magician Software[5]			
Reliability	Temp.	Operating	0°C to 60°C[6]			
		Non-Operating	-40°C to 85°C			
	Humidity		5% to 95% non-condensing			
	Shock	Non-Operating	1,500G(Gravity), duration: 0.5ms, 3 axis			
	Vibration	Non-Operating	20~2,000Hz, 20G			
Certifications			CE, BSMI, KC, VCCI, RCM, FCC, IC, UL, TUV, CB, UKCA			
RoHS Compliance			RoHS 2			
Warranty[7]	Period		5 years limited			

1) 1GB = 1,000,000,000 bytes by IDEMA. A certain portion of capacity may be used for system file and maintenance use, thus the actual available capacity may differ from the labeled capacity.
2) Exact weight of product may vary by capacity.
3) Max data transfer speed is measured based on Samsung's internal testing standards with the enclosed cable. Performance may vary depending on host configuration, cable and user system environment. Test System: AMD Ryzen 7 8840U, 16GB DRAM, Win11-25H2, Asrock 4x4-8000.
4) The drop test was conducted under controlled conditions. Drop resistance may vary depending on the actual environmental conditions. Damage caused by drop is not covered under warranty.
   * Test condition: Device was dropped free-fall to a metal plate from 2-meter height.
   ** No warranty is provided for any physical damage.
5) Samsung Magician Software compatible with Windows ® 10 or higher, macOS ® 10.15 or higher, Android ™ 7.0 or higher
6) Tc is measured at the hottest point on the case. Sufficient airflow is recommended to be operated properly on heavier workload within device operating temperature.
7) Please refer to the detailed warranty statement here at https://semiconductor.samsung.com/consumer-storage/support/documents/. The LED component of the P7 is warranted for five (5) years of typical use, typical use for the purposes of this warranty defined as four (4) hours of operation per day at temperatures of 40°C or below.

PRODUCT LINEUP

Capacity	Model Name	Model Code	Box Contents
1TB (1,000GB*)	MU-PF1T0	MU-PF1T0G/WW	· Samsung Portable SSD P7 · USB Type-C to C cable · Quick User Manual & Warranty Statement
		MU-PF1T0R/WW	
		MU-PF1T0G/AM	
2TB (2,000GB*)	MU-PF2T0	MU-PF2T0G/WW	
		MU-PF2T0R/WW	
		MU-PF2T0G/AM	
4TB (4,000GB*)	MU-PF4T0	MU-PF4T0G/WW	
		MU-PF4T0R/WW	
		MU-PF4T0G/AM	
8TB (8,000GB*)	MU-PF8T0	MU-PF8T0G/WW	
		MU-PF8T0R/WW	
		MU-PF8T0G/AM	

* GB: 1GB = 1,000,000,000 bytes. The actual usable capacity may be less than the labeled capacity.

For more information, including but not limited to the warranty provided for this product, and to download the latest software & manuals, please visit www.samsung.com/ssd and www.samsungssd.com.

Test Configuration

Below you will find a list of system configurations Samsung used to obtain the results reported in this Data Sheet.

	Performance
Interface	USB4
OS	Windows 11 Pro 64bit
CPU	AMD Ryzen 7 8840U
Memory	DDR5 16GB
Chipset	ASRock 4x4-8000
Test Program	CDM

Revision History

Revision Number	Description	Revision Date
1.0	Initial release	August, 2026
2.0	Update product lineup and test configuration	October 2026