Samsung Portable SSD T7

2020 Data Sheet

Revision 1.0



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Introduction

Samsung Portable SSD is a next-generation storage solution. It can transfer files faster and store data safely with solid state drive technology. Its compact and sleek design delivers a sense of durability and trust for data storage needs. Samsung Portable SSD T7 is an exceptional external storage device for daily users that features the same super-fast performance as the T7 Touch and has a compact and slim design that comes in trendy colors. The T7 earns consumer trust with its safe thermal reliability.

Super-fast Performance

Samsung Portable SSD T7 uses NVMe interface to take full advantage of the USB 3.2 Gen2 interface, offering a remarkably fast bandwidth of up to 10Gbps. T7 delivers read/write speeds of up to 1,050/1,000MB/s respectively, which is more than 1.9 times faster than current SATA-based portable SSDs and more than 9.5 times faster than external HDDs.[1]

Compact Portability

The T7's pocket-sized and slim design allows consumers to conveniently carry and access data anywhere. The sleek and slim design of its aluminum metal case offers enhanced durability and mobility. The T7 has lightweight metal body (58g), which is approximately the same weight as an egg. Also, it is slim as thin as a pencil. With this compact and slim design, the T7 is available in up to 2TB.

Thermal Reliability

The T7 integrates the latest thermal management technologies. It safeguards user data and avoids low temperature burns by maintaining optimal operating temperatures via DTG (Dynamic Thermal Guard) and ePCM (Encapsulated Phase Change materials). The DTG technology minimizes overall heat generation, automatically maintaining ideal operating temperatures to safely use the device. An ePCM– a substance that acts as latent heat storage to absorb heat and release it gradually- protects against overheating. In addition, the T7 is protected by a 3-year limited warranty.

1 Based on internal test results (Read Performance)

Technical Specifications

Samsung Portable SSD T7			
Interface	USB 3.2 Gen2 (10Gbps)		
Compatibility	Windows 7 or higher, Mac OS X 10.10 or higher Android Lollipop or higher		
Hardware Information	Capacities		500GB/1TB/2TB [2]
	Dimensions		85 x 57 x 8.0mm (3.3 x 2.2 x 0.3 inches)
	Weight		58 grams (2.0 oz) [3]
Performance	Sequential Read		Up to 1,050 MB/sec [4]
	Sequential Write		Up to 1,000 MB/sec [4]
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

2. 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.
3. Exact weight of product may vary by capacity.
4 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.

PRODUCT LINE-UP

Density	Model Name	Model Code	Box Contents
2TB	MU-PC2T0	MU-PC2T0R/AM	• Samsung Portable SSD T7 • USB Type-C to C, Type-C to A cables • Quick Start Guide & Warranty Statement
		MU-PC2T0R/WW	
		MU-PC2T0R/CN	
		MU-PC2T0H/AM	
		MU-PC2T0H/WW	
		MU-PC2T0H/CN	
		MU-PC2T0T/AM	
		MU-PC2T0T/WW	
		MU-PC2T0T/CN	
1TB	MU-PC1T0	MU-PC1T0R/AM	
		MU-PC1T0R/WW	
		MU-PC1T0R/CN	
		MU-PC1T0H/AM	
		MU-PC1T0H/WW	
		MU-PC1T0H/CN	
		MU-PC1T0T/AM	
		MU-PC1T0T/WW	
		MU-PC2T0T/CN	
500GB	MU-PC500	MU-PC500R/AM	
		MU-PC500R/WW	
		MU-PC500R/CN	
		MU-PC500H/AM	
		MU-PC500H/WW	
		MU-PC500H/CN	
		MU-PC500T/AM	
		MU-PC500T/WW	
		MU-PC500T/CN	