

# Samsung Portable SSD

## T7

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2020 Data Sheet

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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.<sup>1</sup>

## 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.

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<sup>1</sup> 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<br>Android Lollipop or higher |  |                                 |
| Hardware Information    | Capacities  | 500GB/1TB/2TB <sup>2</sup>                       |                                 |
|                         | Dimensions  | 85 x 57 x 8.0mm (3.3 x 2.2 x 0.3 inches)         |                                 |
|                         | Weight  | 58 grams (2.0 oz) <sup>3</sup>                   |                                 |
| Performance             | Sequential Read   | Up to 1,050 MB/sec <sup>4</sup>                  |                                 |
|                         | Sequential Write  | Up to 1,000 MB/sec <sup>4</sup>                  |                                 |
| 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 | <ul style="list-style-type: none"> <li>• Samsung Portable SSD T7</li> <li>• USB Type-C to C, Type-C to A cables</li> <li>• Quick Start Guide &amp; Warranty Statement</li> </ul> |
|         |            | 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-PC1T0T/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 |  |