

# Samsung microSD Card

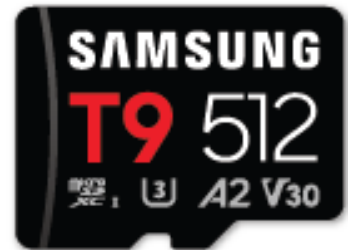
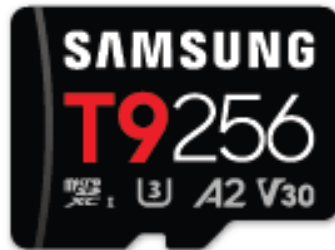
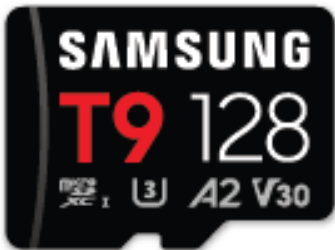
## T9

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2026 Data Sheet

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Revision 1.0



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## I. TECHNICAL SPECIFICATIONS

| Samsung microSD Card T9 |                                     |   |                                     |                                     |
|-------------------------|-------------------------------------|---|-------------------------------------|-------------------------------------|
| Hardware Information    | Form Factor                         | microSDXC™  |                                     |                                     |
|                         | User Capacity                       | 128GB   | 256GB                               | 512GB                               |
|                         |                                     | 128,010,158,080 Bytes <sup>1)</sup>   | 256,020,316,160 Bytes <sup>1)</sup> | 512,007,077,888 Bytes <sup>1)</sup> |
|                         | Bus Speed Mode                      | UHS-I SDR104 <sup>2)</sup> / UHS-I DDR200 <sup>3)</sup> with Samsung microSD Reader |                                     |                                     |
|                         | Dimensions                          | 15 x 11 x 1 (mm) (L x W x T)  |                                     |                                     |
|                         | Weights                             | Approx. 0.25g (Card only)   |                                     |                                     |
| Performance             | Speed Class                         | Class 10, V30 <sup>4)</sup>   |                                     |                                     |
|                         | App Perf. Class                     | A2 <sup>5)</sup>  |                                     |                                     |
|                         | Speed Grade                         | Grade 3 (U3)  |                                     |                                     |
|                         | Sequential Read Speed <sup>6)</sup> | Up to 200MB/s   | Up to 200MB/s                       | Up to 200MB/s                       |
|                         | Sequential Read Speed <sup>6)</sup> | Up to 130MB/s   | Up to 130MB/s                       | Up to 130MB/s                       |
| Reliability             | Temperature                         | Operating : -25°C to 85°C   |                                     |                                     |
|                         |                                     | Non-Operating : -40°C to 85°C   |                                     |                                     |
| EMC Certifications      |                                     | FCC (IC), CE (UKCA), VCCI, RCM  |                                     |                                     |
| Warranty                |                                     | 3 year limited <sup>7)</sup>  |                                     |                                     |

- 1) 1GB=1,000,000,000 bytes. Actual usable storage capacity may vary. User capacity measured with SD Formatter 3.1 tool with FAT file system.
- 2) 1.8V Signaling, Frequency up to 208 MHz, up to 104MB/sec, Max. Current Consumption 800mA (varies by test conditions)
- 3) 1.8V Signaling, Frequency up to 208 MHz, up to 200MB/sec, Max. Current Consumption 800mA (varies by test conditions)
- 4) Video Speed Class means sustained video capture rates of 30MB/s(V30) which enable to support real-time video recording to UHS Bus interface products. Transfer speeds may vary by host device.
- 5) Application Performance Class means Min. Random Read 4000 IOPS(A2), Random Write 2000 IOPS(A2), and Sustained Seq. Write 10MB/s(A1,A2), which makes app performance faster. Performances may vary by host device.
- 6) Performance results are based on internal testing conditions. Stated performance was achieved by using PRO Ultimate SD card with Samsung SD Card reader (ver 3.0) in a controlled environment. Actual read/write speeds may vary depending on user environment. For more information, please see "5. Card Reader Compatibility."
- 7) Warranties provided herein do not extend to any use of the product for or with continuous recording instruments or any other write-intensive devices, including without limitation security cameras, surveillance systems, dashboard cameras, blackbox cameras, internet protocol/network cameras, continuous recording set top box devices and continuous data logging devices like servers, dedicated devices for benchmarking test, the primary drive for certain devices and any other excessive uses.

## 2. PRODUCT LINEUP

| Form Factor | Lineup | Capacity | Model Name |
|-------------|--------|----------|------------|
| microSD     | T9     | 128GB    | MB-MH128T  |
|             |        | 256GB    | MB-MH256T  |
|             |        | 512GB    | MB-MH512T  |

## 3. Regulatory Compliance



For information on Samsung's environmental commitments and product-specific regulatory obligations, e.g. REACH, WEEE, Batteries, visit:  
<https://www.samsung.com/uk/sustainability/environment/environment-data/>

## 4. Environmental Specifications<sup>1)</sup>



| Features         | Mode          | Specification            |
|------------------|---------------|--------------------------|
| Water-proof      | Non-operating | 1 M depth, 3% NaCl, 72hr |
| Magnetic-proof   | Non-operating | 15,000 Gauss, 30 secs    |
| X-Ray-proof      | Non-operating | 100 mGy, 210 secs        |
| Drop-proof       | Non-operating | 5 m, 10 times            |
| Durability-proof | Non-operating | 10K cycles               |

NOTE:

- 1) The testing results reported herein were obtained under strictly controlled lab environment, as more fully described in the respective footnote for each test. Any attempt to replicate such results are not covered under Samsung's warranty program and Samsung disclaims any and all liability with respect to damages resulting from such attempts, including without limitation, damage to product, loss of property, or loss of data. For more information on Samsung's warranty policy, please visit:  
[www.samsung.com/support](http://www.samsung.com/support).

## 5. Card Reader Compatibility

Maximum read/write speeds are possible only when Samsung microSD card is used with specific Samsung SD Card reader (ver 3.0). Actual speeds may vary depending on user environment including host device and use conditions.

| Ver 2.0   | Ver 3.0   |
|---|---|
|  |  |
| Up to 180 MB/s  | Up to 200 MB/s  |

## 6. REVISION HISTORY

| Revision Number | Description     | Revision Date |
|-----------------|-----------------|---------------|
| 1.0             | Initial Release | January, 2026 |