

Samsung microSD Card

T7

2026 Data Sheet

Revision 1.1



DISCLAIMER

SAMSUNG ELECTRONICS RESERVES THE RIGHT TO CHANGE PRODUCTS, INFORMATION AND SPECIFICATIONS WITHOUT NOTICE.

Products and specifications discussed herein are for reference purposes only. All information discussed herein may change without notice and is provided on an "AS IS" basis without warranties of any kind. This document and all information discussed herein remain the sole and exclusive property of Samsung Electronics. No license of any patent, copyright, mask work, trademark or any other intellectual property rights is granted by one party to the other party under this document by implication, estoppels or otherwise. Samsung products are not intended for use in life support, critical care, medical, safety equipment, or similar applications where product failure could result in loss of life or personal or physical harm, or any military or defense application, or any governmental procurement to which special terms or provisions may apply. For updates or additional information about Samsung products, contact your nearest Samsung Electronics' authorized representative.

COPYRIGHT © 2026

This material is copyrighted by Samsung Electronics. Any unauthorized reproductions, use or disclosure of this material or any part thereof, is strictly prohibited and is a violation under copyright law. The microSD, microSDHC and microSDXC mark and logo are trademarks of SD-3C LLC. All other marks are property of their respective owners.

TRADEMARKS & SERVICE MARKS

The Samsung Logo is the trademark of Samsung Electronics. Adobe is a trademark and Adobe Acrobat is a registered trademark of Adobe Systems Incorporated. All other company and product names may be trademarks of the respective companies with which they are associated.

1. TECHNICAL SPECIFICATIONS

Samsung microSD Card T7					
Hardware Information	Form Factor	microSDXC™			
	User Capacity	128GB	256GB	512GB	1TB
		128,144,375,808 Bytes ¹⁾	256,288,751,616 Bytes ¹⁾	512,644,612,096 Bytes ¹⁾	1,025,356,333,056 Bytes ¹⁾
	Bus Speed Mode	UHS-I SDR104 ²⁾ / UHS-I DDR200 ³⁾ 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 ⁴⁾			
	App Perf. Class	A2 ⁵⁾			
	Speed Grade	Grade 3 (U3)			
	Sequential Read Speed ⁶⁾	Up to 170MB/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 ⁷⁾			

- 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. Actual read/write speeds may vary depending on user environment.
- 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	T7	128GB	MB-MB128T
		256GB	MB-MB256T
		512GB	MB-MB512T
		1TB	MB-MB1T0T



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 Specifications¹⁾

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.

5. REVISION HISTORY

Revision Number	Description	Revision Date
1.0	Initial Release	January, 2026
1.1	Remove the sequential write speed	January, 2026