Samsung microSD UHS-I Card : PRO Endurance Lineup

2022 Data Sheet

Revision 1.0



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 right 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 office.

COPYRIGHT © 2022

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 SD, SDHC and SDXC mark and logo are trademarks of SD-3C LLC. All other marks are property of their respective owners. All brand names, trademarks and registered trademarks belong to their respective owners.

1. TECHNICAL SPECIFICATIONS

Samsung microSD Card PRO Endurance					
Hardware Information	Form Factor	microSDHC™	microSDXC™		
	User Capacity	32GB	64GB	128GB	256GB
		31,998,345,216 Bytes[1)]	63,988,301,824 Bytes[1)]	128,010,158,080 Bytes[1)]	256,020,316,160 Bytes[1)]
	Bus Speed Mode	UHS-I SDR104[2)]			
	Dimensions	15 x 11 x 1 (mm) (L x W x H)			
	Weights	Approx. 0.25g (Card only)			
Performance	Speed Class	Class 10, V10[3)]		Class 10, V30[3)]	
	Speed Grade	Grade 1 (U1)		Grade 3 (U3)	
	Transfer Speed[4)]	Read : Up to 100MB/s Write : Up to 30MB/s		Read : Up to 100MB/s Write : Up to 40MB/s	
Reliability	Endurance[5)] (Hours)	17,520	35,040	70,080	140,160
	Temperature	Operating : -25°C to 85°C			
		Non-Operating : -40°C to 85°C			
	6-Proof Features[6)]	Water-proof, Temperature-proof, X-ray-proof, Magnetic-proof, Drop-proof, Wearout-proof			
EMC Certifications		CE (UKCA), FCC, VCCI, RCM			
Warranty[7)]		2 year Limited	3 year Limited	5 year Limited	5 year Limited

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) SDR104: 1.8V Signaling, Frequency up to 208 MHz, up to 104MB/sec, Max. Current Consumption 800mA (varies by test conditions)

3) V10, V30 : Video Speed Class means sustained video capture rates of 10MB/s(V10) and 30MB/s(V30) which enable to support real-time video recording to UHS Bus IF products. Transfer speeds may vary by host device.

4) Performance results are based on internal testing conditions. Transfer speeds may vary by host device.

5) Based on Full HD (1920x1080) video content recorded at 26 Mbps(3.25MB/s) . Video support may vary based on host device, file attributes, usage conditions and other factors.

6) 1M depth, salt water, 72hrs. Operating temperatures of -25°C to 85°C (-13°F to 185°F), non-operating temperatures of -40°C to 85°C(-40°F to 185°F). Withstands standard airport x-ray machines (Up to 100mGy). Magnetic field equivalent of a high-field MRI scanner (Up to 15,000 gauss). Withstand drops up to 5meters (16.4feet). Up to 10,000 swipes. *Samsung is not liable for any i) damages and/or loss of data or ii) expenses incurred from memory card data recovery.

7) For more detailed warranty information, please visit www.samsung.com/support

2. PRODUCT LINEUP

Form Factor	Lineup	Capacity	Model Name
microSD	PRO Endurance	32GB	MB-MJ32K
		64GB	MB-MJ64K
		128GB	MB-MJ128K
		256GB	MB-MJ256K

3. REVISION HISTORY

Revision Number	Description	Revision Date
1.0	Initial Release	March.2022