Samsung microSD UHS-I Card : PRO Endurance Lineup

2024 Data Sheet

Revision 1.1

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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			
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)   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

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3. Regulatory Compliance

4. Multi-Proof Features

Items	Conditions
Water-proof	1M depth, salt water (3% NaCl), 72hrs
Temperature-proof	Operating temperatures of -25℃ to 85℃ (-13°F to 185°F) Non-operating temperatures of -40℃ to 85℃ (-40°F to 185°F).
X-Ray-proof	Withstands standard airport x-ray machines (Up to 100mGy, 210sec)
Magnetic-proof	Magnetic field equivalent of a high-field MRI scanner (Up to 15,000 gauss, 30secs)
Drop-proof	Withstand 10 cycles drops up to 5 meters (16.4feet)
Wearout-proof	Up to 10,000 swipes

The multi-proof 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	March.2022
1.1	Modifying Multi-Proof conditions	August 2024