

Samsung microSD UHS-I Card : PRO Endurance Lineup

2018 Data Sheet

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1. INTRODUCTION

Samsung PRO Endurance cards offer industry-leading endurance and up to 43,800 hours of continuous video recording. Designed for consumers and B2B channel customers who use intensive monitoring applications such as surveillance & security cameras, body cameras and dash cams, the fast and stable PRO Endurance makes continuous video monitoring easy and quick. It is one and only high endurance card in the market that provides FHD recording and also 4K video support via superior read/write speeds of up to 100/30 MB/s.

2. PRODUCT FEATURES

Samsung PRO Endurance				
Hardware Information	Form Factor	microSDHC™, microSDXC™		
	User Capacity	32GB	64GB	128GB
		31,998,345,216 Bytes ¹⁾	63,988,301,824 Bytes ¹⁾	128,010,158,080 Bytes ¹⁾
	Bus Speed Mode	UHS-I SDR104 ²⁾		
	Dimensions	15 x 11 x 1 (mm) (L x W x H)		
Weights	Approx. 0.5g			
Performance	Speed Class	Class 10		
	Speed Grade	Grade 1 (U1)		
	Sequential Read ³⁾	Up to 100 MB/s		
	Sequential Write ³⁾	Up to 30 MB/s		
Reliability	Endurance	17,520 Hours ⁴⁾	26,280 Hours ⁴⁾	43,800 Hours ⁴⁾
	Temperature	Operating : -25°C to 85°C		
		Non-Operating : -40°C to 85°C		
	Humidity	40°C, 93%, 500hr (storage)		
	Durability	10,000 mating cycles		
4-Proof Features ⁵⁾	Waterproof (IEC 60529, IPX7), Temperature-proof, X-ray-proof, Magnetic-proof			
EMC Certifications		FCC, CE, VCCI, NATA		
Warranty		2 year limited ⁶⁾	3 year limited ⁶⁾	5 year limited ⁶⁾

- 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) Performance results are based on internal testing conditions. Actual sequential read/write speeds may vary by host device.
- 4) Based on Full HD (1920x1080) video content recorded at 26 Mbps Video support.
- 5) 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 50 Roentgen) and the magnetic field equivalent of a high-field MRI scanner (Up to 15,000 gauss).
- 6) For more detailed warranty information, please visit www.samsung.com/support.

3. PRODUCT LINEUP

Form Factor	Lineup	Density	Model Name
microSD	PRO Endurance	32GB	MB-MJ32G
		64GB	MB-MJ64G
		128GB	MB-MJ128G