

Samsung microSD UHS-I Card : EVO Plus Lineup

2017 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 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 © 2017

This material is copyrighted by Samsung Electronics Co., Ltd. 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.

TRADEMARKS & SERVICE MARKS

The Samsung Logo is the trademark of Samsung Electronics Co., Ltd. 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. INTRODUCTION

Samsung's EVO Plus microSD leverages Samsung's advanced NAND technology to achieve impressive speed and capacity improvements, most notable in the EVO Plus 256GB, 128GB, 64GB, and 32GB, which now reach industry maximum UHS-I read speeds of 100 MB/s (32GB up to 95MB/s). EVO Plus microSD cards provide a more apposite answer for consumers looking to store heavy-loaded, high-resolution photography, videos and files.

2. PRODUCT FEATURES

Samsung EVO Plus					
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. 0.5g				
Performance	Speed Class	Class 10			
	Speed Grade	Grade 1 (U1)	Grade 3 (U3)		
	Sequential Read ³⁾	Up to 95MB/s	Up to 100 MB/s		
	Sequential Write ³⁾	Up to 20 MB/s	Up to 60 MB/s	Up to 90 MB/s	
Reliability	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 ⁴⁾	Waterproof (IEC 60529, IPX7), Temperature-proof,				
	X-ray-proof, Magnetic-proof				
EMC Certifications		FCC, CE, VCCI, NATA			
Warranty		10 year limited ⁵⁾			

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. Transfer speeds may vary by host device.

4) 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).

5) 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.

3. PRODUCT LINEUP

Form Factor	Lineup	Density	Model Name
microSD	EVO Plus	32GB	MB-MC32G
		64GB	MB-MC64G
		128GB	MB-MC128G
		256GB	MB-MC256G