Samsung micro SD UHS-I Card : EVO Plus Lineup

2024 Data Sheet

Revision 2.0



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1. TECHNICAL SPECIFICATIONS

Samsung microSD Card EVO Plus						
Hardware Information	Form Factor	microSDXC™				
	User Capacity	64GB	128GB	256GB	512GB	1TB
		64,055,410,688 Bytes[1)]	128,144,375,808 Bytes[1)]	256,288,751,616 Bytes[1)]	512,644,612,096 Bytes[1)]	1,024,309,157,954 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 H)				
	Weights	Approx. 0.25g (Card only)				
Performance	Speed Class	Class 10, V10[4)]	Class 10, V30[4)]			
	App Perf. Class	A1[5)]	A2[5)]			
	Speed Grade	Grade 1 (U1)	Grade 3 (U3)			
	Transfer Speed[6)]	Up to 160MB/s				
Reliability	Temperature	Operating : -25°C to 85°C				
		Non-Operating : -40°C to 85°C				
	Durability	10,000 mating cycles				
	6-Proof Features[7)]	Water-proof, Temperature-proof, X-ray-proof, Magnetic-proof, Drop-proof, Wearout-proof				
EMC Certifications		FCC (IC), CE (UKCA), VCCI, RCM				
Warranty		10 year limited[8)]				

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) DDR200 : 1.8V Signaling, Frequency up to 208 MHz, up to 200MB/sec, Max. Current Consumption 800mA (varies by test conditions)

4) 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.

5) A1, A2 : Application Performance Class means Min. Random Read 1500 IOPS(A1), 4000 IOPS(A2), Random Write 500 IOPS(A1), 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. Transfer speeds may vary by host device.

7) 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.

8) 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	EVO Plus	64GB	MB-MC64S
		128GB	MB-MC128S
		256GB	MB-MC256S
		512GB	MB-MC512S
		1TB	MB-MC1T0S

3. REVISION HISTORY

Revision Number	Description	Revision Date
1.0	Initial Release	August. 2021
2.0	Adding 1TB model	February. 2024