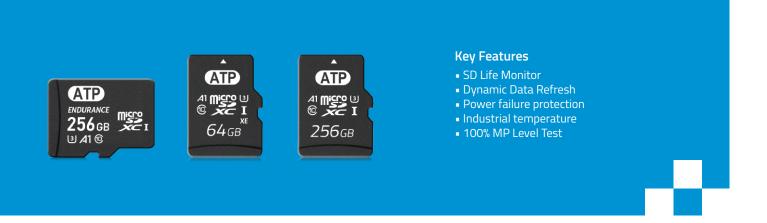


ATP microSD/microSDHC/microSDXC Card Industrial Grade

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



These tiny yet feature-rich and reliable removable storage solutions are used extensively in data logging, navigation and surveillance systems, in-vehicle infotainment (IVI), drive recorders, and other demanding applications.

To ensure data integrity, ATP microSD cards feature AutoRefresh read disturb protection and Dynamic Data Refresh data retention management technologies to prevent errors in frequently read and seldom-accessed areas. The Sudden Power-Off Recovery (SPOR) mechanism recovers valid data during voltage fluctuations or power loss events.

ATP microSD cards in 3D triple level cell (TLC) NAND flash come in capacities up to 256 GB. They feature 4KB page management and SLC caching algorithm, which allows 1/2 random access time and low latency compared with traditional solutions. These cards meet Android A1 application performance (SDA spec) and consume less power, making them suitable for small handheld devices with limited battery life.

Technologies & Add-On Services	Life Monitor	Sudden Power-Off Recovery (SPOR)	AutoRefresh	Advanced Wear Leveling	Dynamic Data Refresh	Auto-Read Calibration	Secure Erase	Industrial Temperature	SiP SiP	Complete Drive Test	Joint Validation
Premium		0	0	0		—	0	0	0	0	
Superior		0	0	0	0	A	0		0	0	

▲: Customization option available on a project basis.

Specifications

microSD/microSDHC/microSDXC									
Product Line			Superior						
Product Line	S800Pi	S750Pi	S700Pi	S750Sc	S700Sc				
Interface	512 MB to 2 GB, HS mode 4 GB to 8 GB, UHS-I UHS-I			UHS-I					
Flash Type	SLC	3D Pse	udo SLC	3D Pseudo SLC					
Form Factor		microSD Card							
Operating Temperature		-40°C to 85°C		-25°C to 85°C					
Power Loss Protection Options	Firmware Based								
Optional SED Features	-								
Capacity	512 MB to 8 GB 8 GB to 64 GB			8 GB to 64 GB					
	Performance								
Sequential Read (MB/s) up to	80	99	95	99	95				
Sequential Write (MB/s) up to	39	82	74	82	74				
Endurance and Reliability									
Endurance (TBW) ¹ up to	192 TB	3840 TB	512 TB	3840 TB	512 TB				
Reliability MTBF @ 25°C	>5,000,000 hours	>2,000,000 hours	>3,000,000 hours	>2,000,000 hours	>3,000,000 hours				
Reliability Number of Insertions	20,000 (SDA spec minimum 10,000)								
Others									
Dimensions: L x W x H (mm)	15.0 x 11.0 x 1.0								
Certifications	CE, FCC, UKCA, RoHS								
Warranty		5 years	2 years						

		microS	D/microSDHC/microSD	хс				
Product Line	Superior							
Product Line	S650Si	S650Sc	5600Si	S600Sc	S600Sia	S600Sc		
Interface	UHS-I							
Flash Type		3D TLC		MLC	3D TLC			
Form Factor	microSD Card							
Operating Temperature	-40°C to 85°C	-25°C to 85°C	-40°C to 85°C	-25°C to 85°C	-40°C to 85°C	-25°C to 85°C		
Power Loss Protection Options	Firmware Based							
Optional SED Features	-							
Capacity	32 GB to 256 GB		32 GB to 256 GB	4 GB to 8 GB	32 GB to 256 GB			
	Performance							
Sequential Read (MB/s) up to	96		96	68	96			
Sequential Write (MB/s) up to	65		70	24	7	C		
	Endurance and Reliability							
Endurance (TBW) ¹ up to	1280 TB		307 TB	10 TB	307	ТВ		
Reliability MTBF @ 25°C	>2,000,000 hours							
Reliability Number of Insertions	20,000 (SDA spec minimum 10,000)							
	Others							
Dimensions: L x W x H (mm)	15.0 x 11.0 x 1.0							
Certifications	CE, FCC, UKCA, RoHS							
Warranty	3 years 2 years							

1 Under highest Sequential write value. May vary by density, configuration and applications.

Hot Items Ordering Information							
Product Line	Flash Type	Capacity	Operating Temperature	P/N			
	3D pSLC	8 GB ~ 64 GB	-40°C~85°C	AF8GUD4A-EBAIM			
S750Pi				AF16GUD4A-EBAIM			
11001				AF32GUD4A-EBAIM			
				AF64GUD4A-EBAIM			
\$750Sc	3D pSLC	8 GB ~ 64 GB	-25°C~85°C	AF8GUD4A-EBAXM			
				AF16GUD4A-EBAXM			
				AF32GUD4A-EBAXM			
				AF64GUD4A-EBAXM			
	3D TLC	32 GB ~ 256 GB	-40°C~85°C	AF32GUD4-EBAIM			
S650Si				AF64GUD4-EBAIM			
				AF128GUD4-EBAIM			
				AF256GUD4-EBAIM			
S650Sc	3D TLC	32 GB ~ 256 GB	-25°C~85°C	AF32GUD4-EBAXM			
				AF64GUD4-EBAXM			
				AF128GUD4-EBAXM			
				AF256GUD4-EBAXM			

Product spec and its related information are subject to change without advance notice. Please refer to <u>www.atpinc.com</u> for latest information

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The Global Leader in Specialized Storage and Memory Solutions

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