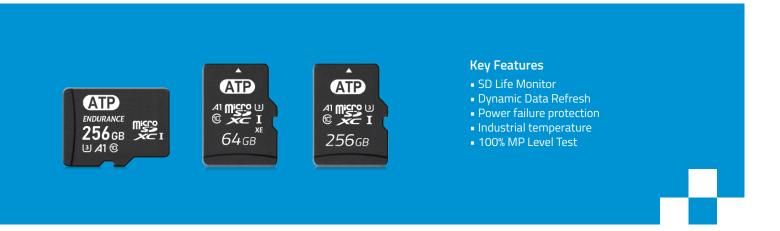


ATP microSD/microSDHC/microSDXC Card Industrial Grade

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	Complete Drive Test	Joint Validation
Premium	A	0	0	0	A	_	0	0	0	0	A
Superior	A	0	0	0	0	A	0	A	0	0	A

▲: Customization option available on a project basis.



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Specifications

		microSD/microS	DHC/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	UF	IS-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 t	8 GB to 64 GB					
		Perforr	nance					
Sequential Read (MB/s) up to	80	80 99 95		99	95			
Sequential Write (MB/s) up to	39	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	lumber 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	XC				
Product Line	Superior							
	S650Si	S650Sc	S600Si	S600Sc	S600Sia	S600Sc		
Interface	UHS-I							
Flash Type		3D TLC	MLC		3D TLC			
Form Factor			micro	SD 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	9	6	96	68	96			
Sequential Write (MB/s) up to	65		70	24	70			
	Endurance and Reliability							
Endurance (TBW) ¹ up to	128	0 TB	307 TB	10 TB	307 TB			
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 ує	ears	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		
		8 GB ~ 64 GB	-40°C~85°C	AF8GUD4A-EBAIM		
\$750Pi	3D pSLC			AF16GUD4A-EBAIM		
3730FI	3D pace			AF32GUD4A-EBAIM		
				AF64GUD4A-EBAIM		
S750Sc	3D pSLC	8 GB ~ 64 GB		AF8GUD4A-EBAXM		
			-25°C~85°C	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		
\$650\$c	3D TLC	32 GB ~ 256 GB	-25°C~85°C	AF32GUD4-EBAXM		
				AF64GUD4-EBAXM		
303030				AF128GUD4-EBAXM		
				AF256GUD4-EBAXM		



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

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