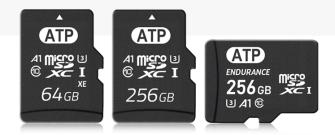


# microSD/microSDHC/microSDXC Card

The Global Leader in Specialized Storage and Memory Solutions



## **KEY FEATURES**

- SD Life Monitor
- Dynamic Data Refresh
- Power failure protection
- Industrial temperature
- 100% MP Level Test

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	S.M.A.R.T.	Firmware-based Power Loss Protection	AutoRefresh	습니다. Advanced Wear Leveling	Dynamic Data Refresh	م ا - م	Secure Erase	Industrial Temperature	Sip	Complete Drive Test	Joint Validation
Premium		0	0	0	<b>A</b>	_	0	0	0	0	<b>A</b>
Superior		0	0	0	0		0		0	0	<b>A</b>

▲: Customization option available on a project basis.

## Specifications

			microSI	D/microSDHC/mic	roSDXC Card				
Product Line			emium						
Product Line	S800Pi	S	750Pi	S750Pc	5700Pi	S700Pc	S650Si	S650Sc	
Interface	512 MB to 2 GB, H 4 GB to 8 GB, U				UHS-I				
Flash Type	Flash Type SLC		3D TLC (p	SLC mode)	ЗD TLC (р	SLC mode)	3D TLC		
Form Factor				m	icroSD Card				
Operating Temperature		-40°C to 85°C	-25°C to 85		-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	512 MB to 8 GB		16 GB to 128 GB		8 GB to 64 GB		64 GB to 512 GB		
				Performance					
Sequential Read (MB/s) up to	68		97		96		97		
Sequential Write (MB/s) up to	39		82		76		76		
			End	durance and Reliat	ility				
Endurance (TBW) <sup>1</sup> up to	192 TB		12,670 TB		1,164 TB		2,000 TB		
Reliability MTBF @ 25°C	>5,000,000 h	ours	>3,000,000 hours		>3,000,000 hours		>2,000,000 hours		
Reliability Number of Insertions			20,000	) (SDA spec minimu	m 10,000)				
				Others					
Dimensions (mm)	15.0 x 11.0 x 1.0								
Certifications	CE, FCC, UKCA, RoHS								
Warranty		2 years							
microSD	/microSDHC/micro	SDXC Card							
Product Line	S600Si	S600Sc	S	500Sc					
Interface	Interface		UHS-I						
Flash Type	Flash Type 3D TLC		MLC						
Form Factor		microSD Car	d						
Operating Temperature	-40°C to 85°C	-25	-25°C to 85°C						
Power Loss Protection Options	ower Loss Protection Options Firmwa		ed						
<b>Optional SED Features</b>		-							
Capacity	32 GB to	256 GB	8 GB	to 32 GB					
	Performance								
Sequential Read (MB/s) up to	97		68						
Sequential Write (MB/s) up to	62			24					
Enc	lurance and Reliabil	ity							
Endurance (TBW) <sup>1</sup> up to	15:	, З ТВ		38 TB					
Reliability MTBF @ 25°C		>2,000,000 ho	urs						
Reliability Number of Insertions	20,000 (	num 10,000)							

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

Others

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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sales-apac@atpinc.com

Dimensions (mm) Certifications

Warranty

The Global Leader in Specialized Storage and Memory Solutions E BUILD WITH YOU

15.0 x 11.0 x 1.0

2 years

CE, FCC, UKCA, RoHS

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