

## SD/SDHC/SDXC Card

The Global Leader in Specialized Storage and Memory Solutions









## **Key Features**

- SD Life Monitor
- High endurance
- Low latency
- Read Disturb Protector
- Power failure protection
- Industrial temperature
- 100% MP Level Test

ATP SD cards are the ideal storage format for industrial and automotive applications as they can be conveniently inserted into and easily removed from small host devices for convenient data transfer and storage expansion.

Made to perform dependably under rigorous conditions, ATP SD cards are designed with extensive longevity, which is typically required in industrial applications such as automation, networking, health care and more.

ATP SD cards also deliver the quality, durability and reliability to meet the requirements of major automotive OEM/Tier 1 suppliers, system developers and service providers for higher levels of data accuracy, consistency and integrity in applications such as maps/navigation systems, in-vehicle infotainment (IVI), Advanced Driver Assistance Systems (ADAS), and other data- intensive applications. These solutions can withstand extreme temperatures, dust and shock/vibration, and maintain data integrity under power cycling or sudden power-off events.

Now available in 3D triple-level cell (TLC) NAND flash with A1 Performance Class rating, ATP SD cards undergo endurance, data retention and wide temperature tests and are certified according to international, automotive-specific and temperature-related standards.

## Specifications

SD/SDHC/SDXC Card								
Product Line	S800Pi	S750Pi	S700Pi	S750Sc	S700Sc	S650Si	S650Sc	
Interface	512 MB to 2 GB, HS mode 4 GB to 8 GB, UHS-I	UH	IS-I	UHS-I				
Flash Type	SLC	3D TLC (p	SLC mode)	3D TLC (p	SLC mode)	3D TLC		
Form Factor	SD Card							
Operating Temperature		-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	8 GB to 32 GB	8 GB to 64 GB	8 GB to 32 GB	8 GB to 64 GB	32 GB to 128 GB		
		Performance						
Sequential Read (MB/s) up to	68	99 95		99	95	96		
Sequential Write (MB/s) up to	39	82 70		82	70 57		7	
	Endurance and Reliability							
Endurance (TBW)1 up to	192 TB	1,745 TB 1,164 TB		1,745 TB	1,164 TB	582 TB		
Reliability MTBF @ 25°C	>5,000,000 hours	>3,000,0	000 hours	>3,000,000 hours		>2,000,000 hours		
Reliability Number of Insertions	20,000 (SDA spec minimum 10,000)							
	Others							
Dimensions (mm)	32.0 x 24.0 x 2.1							
Certifications	CE, FCC, UKCA, RoHS							
Warranty	5 years			3 years	2 years	3 ує	ears	

SD/SDHC/SDXC Card									
Product Line	Superior								
Product Line	S600Si	S600Sc	S600Sia/Sca	S600Sc					
Interface	UHS-I								
Flash Type	3D TLC	MLC	MLC / 3D TLC	3D TLC					
Form Factor		SD (	Card						
Operating Temperature	-40°C to 85°C	-25°C to 85°C	-40°C to 85°C/ -25°C to 85°C	-25°C to 85°C					
Power Loss Protection Options		Firmware Based							
Optional SED Features		-	-						
Capacity	32 GB to 512 GB	8 GB to 16 GB	8 GB to 64 GB	32 GB to 512 GB					
	Performance								
Sequential Read (MB/s) up to	96	9	96						
Sequential Write (MB/s) up to	66	23	65	66					
Endurance and Reliability									
Endurance (TBW)1 up to	1,396 TB	19 TB	307 TB	1,396 TB					
Reliability MTBF @ 25°C	>2,000,000 hours								
Reliability Number of Insertions	20,000 (SDA spec minimum 10,000)								
Others									
Dimensions (mm)	32.0 x 24.0 x 2.1								
Certifications	CE, FCC, UKCA, RoHS								
Warranty	2 years								

Technologies & Add-On Services	S.M.A.R.T.	Firmware-based Power Loss Protection	AutoRefresh	Û↓ △  Advanced Wear  Leveling	Dynamic Data Refresh	Auto-Read Calibration	Secure Erase	Industrial Temperature	SiP SiP	Complete Drive Test	Joint Validation
Premium	<b>A</b>	0	0	0	<b>A</b>	_	0	0	0	0	<b>A</b>
Superior	<b>A</b>	0	0	0	0	<b>A</b>	0	<b>A</b>	0	0	<b>A</b>

<sup>1</sup> Under highest Sequential write value. May vary by density, configuration and applications. **.** Customization option available on a project basis.

Hot Items Ordering Information							
Product Line	Flash Type	Capacity Operating Temperature		P/N			
	3D pSLC	8 GB ~ 32 GB	-40°C~85°C	AF8GSD4A-EBAIM			
S750Pi				AF16GSD4A-EBAIM			
				AF32GSD4A-EBAIM			
	3D pSLC	8 GB ~ 32 GB	-25°C~85°C	AF8GSD4A-EBAXM			
\$750Sc				AF16GSD4A-EBAXM			
				AF32GSD4A-EBAXM			
	3D TLC	32 GB ~ 128 GB	-40°C~85°C	AF32GSD4-EBAIM			
S650Si				AF64GSD4-EBAIM			
				AF128GSD4-EBAIM			
S650Sc	3D TLC	32 GB ~ 128 GB	-25°C~85°C	AF32GSD4-EBAXM			
				AF64GSD4-EBAXM			
				AF128GSD4-EBAXM			

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

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