

## 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								
	Premium							
Product Line	S800Pi	S750Pi	S700Pi	S750Pc	S700Pc	S650Si	S650Sc	
Interface	512 MB to 2 GB, HS mode 4 GB to 8 GB, UHS-I	UF	IS-I		UHS-I			
Flash Type	SLC	3D TLC (pSLC mode)		3D TLC (p	SLC mode)	3D TLC		
Form Factor								
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			Firm	ware Based				
<b>Optional SED Features</b>	-							
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			
	Endurance and Reliability							
Endurance (TBW) <sup>1</sup> up to	192 TB	192 TB 1,745 TB 1,164 TB 1,7		1,745 TB	1,164 TB	TB 582 TB		
Reliability MTBF @ 25°C	>5,000,000 hours	>3,000,000 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			2 years	З уе	ears	

SD/SDHC/SDXC Card							
Product Line							
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		Firmwar	e Based				
<b>Optional SED Features</b>			-				
Capacity	32 GB to 512 GB	8 GB to 16 GB	8 GB to 64 GB	32 GB to 512 GB			
	Perf	ormance					
Sequential Read (MB/s) up to	96	68	9	96			
Sequential Write (MB/s) up to	66	23	65	66			
	Endurance and Reliability						
Endurance (TBW) <sup>1</sup> 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						

Tech Add-	hnologies & -On Services	S.M.A.R.T.	Firmware-based Power Loss Protection	AutoRefresh	Advanced Wear Leveling	Dynamic Data Refresh	Auto-Read Calibration	Secure Erase	₩ Industrial Temperature	SiP SiP	Complete Drive Test	Joint Validation
F		<b>A</b>	0	0	0	<b>A</b>	_	0	0	0	0	<b>A</b>
9			0	0	0	0		0		0	0	<b>A</b>

1 Under highest Sequential write value. May vary by density, configuration and applications.
 A: Customization option available on a project basis.

Hot Items Ordering Information							
Product Line	Flash Type	Capacity	Operating Temperature	P/N			
						AF8GSD4A-EBAIM	
S750Pi	S750Pi 3D pSLC 8 GB ~ 32 GB -40°C~85°C	8 GB ~ 32 GB	-40°C~85°C	AF16GSD4A-EBAIM			
		AF32GSD4A-EBAIM					
				AF8GSD4A-EBAXM			
S750Sc	3D pSLC	8 GB ~ 32 GB	-25°C~85°C	AF16GSD4A-EBAXM			
				AF32GSD4A-EBAXM			
					AF32GSD4-EBAIM		
S650Si	3D TLC	3D TLC 32 GB ~ 128 GB -40°C~85°C	AF64GSD4-EBAIM				
				AF128GSD4-EBAIM			
S650Sc		3D TLC 32 GB ~ 128 GB -25°C~85°C		AF32GSD4-EBAXM			
	3D TLC		AF64GSD4-EBAXM				
				AF128GSD4-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

ATP USA

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