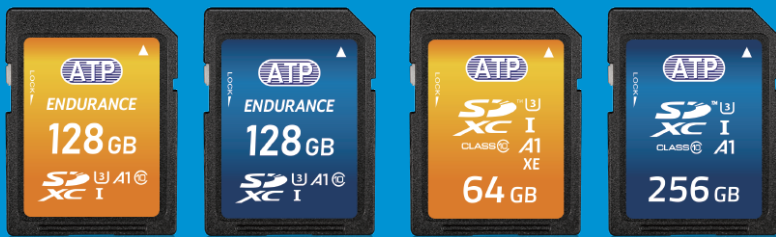# ATP SD/SDHC/SDXC Card
Industrial Grade

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications

Key Features
- SD Life Monitor
- Dynamic Data Refresh
- 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.

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	▲	○	○	○	▲	—	○	○	○	○	▲
Superior	▲	○	○	○	○	▲	○	▲	○	○	▲

▲: Customization option available on a project basis.

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Specifications

	SD/SDHC/SDXC				
Product Line	Premium			Superior	
	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 Pseudo SLC		3D Pseudo SLC	
Form Factor	SD 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 32 GB	8 GB to 64 GB	8 GB to 32 GB	8 GB to 64 GB
Performance					
Sequential Read (MB/s) up to	70	99	95	99	95
Sequential Write (MB/s) up to	39	78	62	78	62
Endurance and Reliability					
Endurance (TBW)[1] up to	192 TB	1920 TB	512 TB	1920 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)	32.0 x 24.0 x 2.1				
Certifications	CE, FCC, UKCA, RoHS				
Warranty	5 years			2 years	

	SD/SDHC/SDXC					
Product Line	Superior					
	S650Si	S650Sc	S600Si	S600Sc	S600Sia	S600Sc
Interface	UHS-I					
Flash Type	3D TLC		3D TLC	MLC	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	-40°C to 85°C	-25°C to 85°C
Power Loss Protection Options	Firmware Based					
Optional SED Features	-					
Capacity	32 GB to 128 GB		32 GB to 256 GB	4 GB to 64 GB	32 GB to 256 GB	
Performance						
Sequential Read (MB/s) up to	96		96	87	96	
Sequential Write (MB/s) up to	62		65	58	65	
Endurance and Reliability						
Endurance (TBW)[1] up to	640 TB		307 TB	77 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)	32.0 x 24.0 x 2.1					
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
S750Pi	3D pSLC	8 GB ~ 32 GB	-40°C~85°C	AF8GSD4A-EBAIM
				AF16GSD4A-EBAIM
				AF32GSD4A-EBAIM
S750Sc	3D pSLC	8 GB ~ 32 GB	-25°C~85°C	AF8GSD4A-EBAXM
				AF16GSD4A-EBAXM
				AF32GSD4A-EBAXM
S650Si	3D TLC	32 GB ~ 128 GB	-40°C~85°C	AF32GSD4-EBAIM
				AF64GSD4-EBAIM
				AF128GSD4-EBAIM
S650Sc	3D TLC	32 GB ~ 128 GB	-25°C~85°C	AF32GSD4-EBAXM
				AF64GSD4-EBAXM
				AF128GSD4-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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