



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.

Specifications

SD/SDHC/SDXC					
Product Line	Premium		Superior		
	S800Pi	S700Pi	S700Sc	S650Si	S650Sc
Interface	512 MB to 2 GB, HS mode 4 GB to 8 GB, UHS-I		UHS-I		
Flash Type	SLC	3D Pseudo SLC	3D Pseudo SLC	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 64 GB	8 GB to 64 GB	32 GB to 128 GB	
Performance					
Sequential Read (MB/s) up to	70	95	95	96	
Sequential Write (MB/s) up to	39	62	62	62	
Endurance and Reliability					
Endurance (TBW) ¹ up to	192 TB	512 TB	512 TB	256 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: 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			
	S600Si	S600Sc	S600Sia	S600Sc
Interface	UHS-I			
Flash Type	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
Power Loss Protection Options	Firmware Based			
Optional SED Features	-			
Capacity	32 GB to 256 GB	4 GB to 64 GB	32 GB to 256 GB	
Performance				
Sequential Read (MB/s) up to	96	87	96	
Sequential Write (MB/s) up to	65	58	65	
Endurance and Reliability				
Endurance (TBW) ¹ up to	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	2 years			

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

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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The Global Leader in Specialized Storage and Memory Solutions

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