



SD/SDHC/SDXC 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

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	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	Complete Drive Test	Joint Validation
Premium	▲	○	▲	○	▲	▲	○	○	○	○	▲
Superior	▲	○	▲	○	▲	▲	○	○	○	○	▲

▲: Customization option available on a project basis.

Specifications

SD/SDHC/SDXC Card										
Product Line	Premium									
	S800Pi	S750Pi	S750Pc	S700Pi	S700Pc	S700Pi / Pc				
Interface	512 MB to 2 GB, HS mode 4 GB to 8 GB, UHS-I				UHS-I					
Flash Type	SLC	3D TLC (pSLC mode)			2D MLC (pSLC mode)					
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	512 MB to 8 GB	16 GB to 128 GB		8 GB to 32 GB		4 GB to 8 GB				
Performance										
Sequential Read (MB/s) up to	68	97		98		97				
Sequential Write (MB/s) up to	39	82		80		82				
Endurance and Reliability										
Endurance (TBW) ¹ up to	192 TB	12,670 TB		582 TB		240 TB				
Reliability MTBF @ 25°C	>5,000,000 hours		>3,000,000 hours		>3,000,000 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									
SD/SDHC/SDXC Card										
Product Line	Superior									
	S650Si	S650Sc	S600Si	S600Sc	S600Si / Sc	S600Si / Sc				
Interface	UHS-I									
Flash Type	3D TLC			MLC	MLC / 3D TLC	2D MLC				
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	-40°C to 85°C / -25°C to 85°C				
Power Loss Protection Options	Firmware Based									
Optional SED Features	-									
Capacity	64 GB to 512 GB	32 GB to 128 GB		8 GB to 16 GB	8 GB to 256 GB	8 GB to 16 GB				
Performance										
Sequential Read (MB/s) up to	97	94		68	96	97				
Sequential Write (MB/s) up to	76	55		23	65	37				
Endurance and Reliability										
Endurance (TBW) ¹ up to	2,000 TB	77 TB		19 TB	307 TB	48 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									

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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