



SD/SDHC/SDXC Card

The Global Leader in Specialized Storage and Memory Solutions



KEY FEATURES

- High endurance
- Compliant with Video Speed Class V30*
- Robust data integrity* (AutoRefresh and Dynamic Data Refresh)
- Power Loss Protection for data at rest
- I-Temp operable* (-40°C to 85°C)
- Continuous supply of SLC NAND to support existing (legacy) platforms
- Water/Dustproof and ESD-resistant System-in-Package design
- SD Life Monitor*

* May vary by product and project support

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

Product Line	Premium			Superior		
	S800Pi	S750Pi / S750Pc	S700Pi / S700Pc	S650Si / S650Sc	S600Si / S600Sc	S600Sc ²
Interface	512 MB to 2 GB, HS mode 4 GB to 8 GB, UHS-I	UHS-I			HS mode	
Flash Type	SLC	3D TLC (pSLC mode)		3D TLC		MLC
Form Factor	SD Card					
Operating Temperature	-40°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	512 MB to 8 GB	16 GB to 256 GB	8 GB to 64 GB	32 GB to 512 GB	32 GB to 256 GB	4 GB to 8 GB
Performance						
Sequential Read (MB/s) up to	81	95	98	95	98	20
Sequential Write (MB/s) up to	39	80	67	70	71	10
Endurance and Reliability						
Endurance (TBW) ¹ up to	192 TB	25,000 TB	1,164 TB	5,500 TB	465 TB	20 TB
Reliability MTBF @ 25°C	>5,000,000 hours	>3,000,000 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 (mm)	32.0 x 24.0 x 2.1					
Certifications	CE, FCC, UKCA, RoHS					
Warranty	5 years			3 years		

1. Under highest Sequential write value. May vary by density, configuration and applications.
2. Product specifications may be subject to change

Technologies	S.M.A.R.T./ Life Monitor	Industrial Temperature	SIP	Firmware-Based Data-At-Rest Power Loss Protection	Advanced Wear Leveling	AutoRefresh	Dynamic Data Refresh	Auto-Read Calibration	Content Preload	Joint Validation and Test
Premium S800Pi / S750Pi / S750Pc / S700Pi / S700Pc	▲	○	○	○	○	○	○	○	▲	▲
Superior S650Si / S650Sc / S600Si / S600Sc	▲	○	○	○	○	○	○	○	▲	▲

▲: Customization option available on a project basis.



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WE BUILD WITH YOU

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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