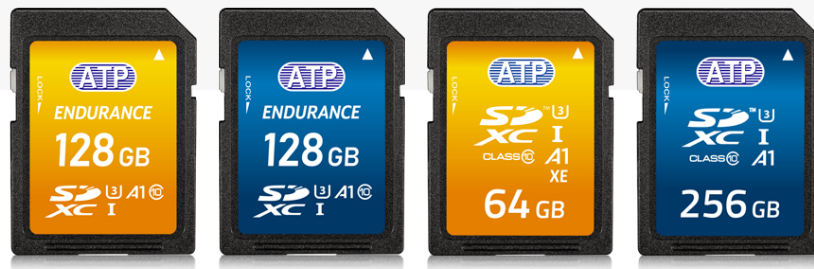




# SD/SDHC/SDXC Card

The Global Leader in Specialized Storage and Memory Solutions



## KEY FEATURES

- High endurance
- Low latency
- Robust data integrity\* (AutoRefresh and Dynamic Data Refresh)
- Power Loss Protection for data at rest
- I-Temp operable\* ( -40 °C to 85 °C)
- Low capacity for legacy usage
- 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.

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

▲: Customization option available on a project basis.

Specifications

Product Line	Premium			Superior	
	S800Pi	S750Pi / S750Pc	S700Pi / S700Pc	S650Si / S650Sc	S600Si / S600Sc
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)	3D TLC	2D MLC
Form Factor	SD Card				
Operating Temperature	-40°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	4 GB to 8 GB	64 GB to 512 GB	8 GB to 16 GB
		Performance			
Sequential Read (MB/s) up to	81	95	96	95	97
Sequential Write (MB/s) up to	39	80	81	70	36
Endurance and Reliability					
Endurance (TBW) <sup>1</sup> up to	192 TB	12,670 TB	240 TB	5,500 TB	48 TB
Reliability MTBF @ 25°C	>5,000,000 hours	>3,000,000 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			3 years	

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



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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](http://www.atpinc.com) for latest information

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