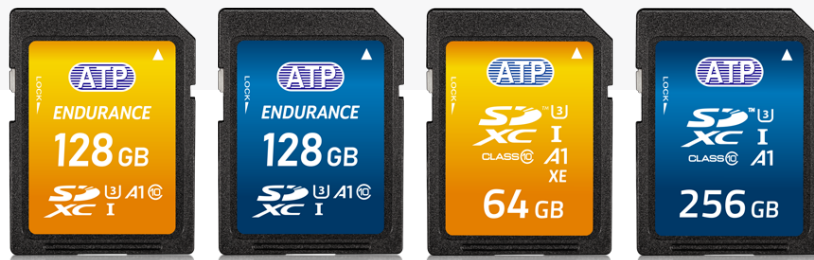




# SD/SDHC/SDXC Card

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					Superior	
	S800Pi	S750Pi	S750Pc	S700Pi	S700Pc	S650Si	S650Sc
Interface	512 MB to 2 GB, HS mode 4 GB to 8 GB, UHS-I		UHS-I				
Flash Type	SLC		3D TLC (pSLC mode)			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	512 MB to 8 GB		16 GB to 128 GB		8 GB to 32 GB		64 GB to 512 GB
Performance							
Sequential Read (MB/s) up to	68		97		98		97
Sequential Write (MB/s) up to	39		82		80		76
Endurance and Reliability							
Endurance (TBW) <sup>1</sup> up to	192 TB		12,670 TB		582 TB		2,000 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 (mm)	32.0 x 24.0 x 2.1						
Certifications	CE, FCC, UKCA, RoHS						
Warranty	5 years					2 years	

SD/SDHC/SDXC Card				
Product Line	Superior			
	S600Si	S600Sc	S600Sc	S600Si / Sc
Interface	UHS-I			
Flash Type	3D TLC		MLC	MLC / 3D TLC
Form Factor	SD Card			
Operating Temperature	-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	32 GB to 128 GB		8 GB to 16 GB	8 GB to 256 GB
Performance				
Sequential Read (MB/s) up to	94		68	96
Sequential Write (MB/s) up to	55		23	65
Endurance and Reliability				
Endurance (TBW) <sup>1</sup> up to	77 TB		19 TB	307 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](http://www.atpinc.com) for latest information

v1 022024

© Copyright 2024 ATP Electronics, Inc. All rights reserved.



The Global Leader in Specialized Storage and Memory Solutions

# WE BUILD WITH YOU

ATP TAIWAN (HQ)

TEL: +886-2-2659-6368  
sales-apac@atpinc.com

ATP USA

TEL: +1-408-732-5000  
sales@atpinc.com

ATP EUROPE

TEL: +49-89-374-9999-0  
sales-europe@atpinc.com

ATP JAPAN

TEL: +81-3-6260-0797  
sales-japan@atpinc.com

ATP CHINA

TEL: +86-21-5080-2220  
sales@cn.atpinc.com