ATP SD/SDHC/SDXC Card
Industrial Grade

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications

Key Features

- SD Life Monitor
- Advanced Wear Leveling
- SiP (System in Package)
- AutoRefresh technology
- Dynamic Data Refresh
- Power failure protection
- Industrial temperature
- Joint Validation
- 100% MP Level Test

Applications

- Industrial PC
- Medical devices
- Automation
- Automotive IVI systems
- Test and Measurement
- Surveillance systems
- Drive recorders
- Navigations
- Network cameras
- Mobile/Handheld computers

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.

Technologies & Add-On Services*		Life Monitor	Sudden Power-Off Recovery	Advanced Wear Leveling	AutoRefresh	Dynamic Data Refresh	Secure Erase	Industrial Temperature	System in Package	Complete Drive Test	Joint Validation
Product Line	Premium	Δ	●	●	●	Δ	●	●	●	●	Δ
	Superior	Δ	●	●	●	●	●	Δ	●	●	Δ
	Value			●					●		

Δ: Customization option available on a project basis.

Specifications

Product Name	SD/SDHC/SDXC				
Product Line	Premium			Superior	
Naming	S800Pi	S700Pi	S700Pi	S700Sc	S700Sc
Flash Type	SLC	iTemp SLC mode	iTemp 3D NAND SLC mode	SLC mode	3D NAND SLC mode
Density	512 MB to 8 GB	4 GB to 32 GB	8 GB to 32 GB	4 GB to 64 GB	8 GB to 32 GB
Performance — Sequential Read up to (MB/s)	69	96	99	96	99
Performance — Sequential Write up to (MB/s)	39	80	64	80	64
Interface	512 MB ~ 2 GB, HS mode 4 GB ~ 8 GB, UHS-I	UHS-I	UHS-I	UHS-I	UHS-I
Operating Temperature	-40°C to 85°C			-25°C to 85°C	
Reliability — TBW* (max.)	192 TB	512 TB	320 TB	1024 TB	320 TB
Reliability — MTBF @ 25°C	>5,000,000 hours	>3,000,000 hours			
Reliability — Number of Insertions:	20,000 (SDA spec minimum 10,000)				
Dimensions: L x W x H (mm)	32.0 x 24.0 x 2.1				

Product Name	SD/SDHC/SDXC				
Product Line	Superior				Value
Naming	S600Si	S600Sc	S600Si	S600Sc	S600Vc
Flash Type	iTemp MLC	MLC	iTemp 3D NAND MLC	3D NAND MLC	3D NAND TLC
Density	8 GB to 64 GB	8 GB to 256 GB**	16 GB to 64 GB	16 GB to 128 GB	32 GB to 128 GB
Performance — Sequential Read up to (MB/s)	96	96	99	99	80
Performance — Sequential Write up to (MB/s)	78	78	64	64	76
Interface	UHS-I				
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
Reliability — TBW* (max.)	77 TB	307 TB	77 TB	77 TB	77 TB
Reliability — MTBF @ 25°C	>2,000,000 hours				>1,000,000 hours
Reliability — Number of Insertions:	20,000 (SDA spec minimum 10,000)				
Dimensions: L x W x H (mm)	32.0 x 24.0 x 2.1				

* Under highest Sequential write value. May vary by density, configuration and applications.
** By project support.

To learn more about this product, contact your ATP Representative.

ATP Global Footprint

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