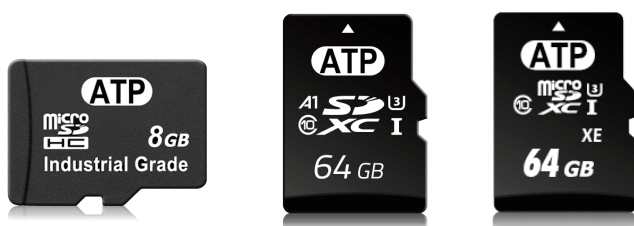




ATP microSD/microSDHC/microSDXC Card Industrial Grade

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

These tiny yet feature-rich and reliable removable storage solutions are used extensively in data logging, navigation and surveillance systems, in-vehicle infotainment (IVI), drive recorders, and other demanding applications.

To ensure data integrity, ATP microSD cards feature AutoRefresh read disturb protection and Dynamic Data Refresh data retention management technologies to prevent errors in frequently read and seldom-accessed areas. The Sudden Power-Off Recovery (SPOR) mechanism recovers valid data during voltage fluctuations or power loss 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		microSD/microSDHC/microSDXC				
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 16 GB	8 GB to 64 GB	4 GB to 16 GB	8 GB to 64 GB
Performance	Sequential Read up to (MB/s)	80	80	99	80	99
	Sequential Write up to (MB/s)	39	60	64	60	64
Interface		512 MB~2 GB, HS mode 4 GB~8 GB, UHS-I	UHS-I		UHS-I	
Operating Temperature		-40°C to 85°C			-25°C to 85°C	
Reliability	TBW* (max.)	192 TB	256 TB	512 TB	256 TB	512 TB
	MTBF @ 25°C	>5,000,000 hours	>3,000,000 hours			
	Number of Insertions:	20,000 (SDA spec minimum 10,000)				
Dimensions: L x W x H (mm)		15.0 x 11.0 x 1.0				

Product Name		microSD/microSDHC/microSDXC				
Product Line		Superior				Value
Naming		S600Si	S600Sc	S600Sia	S600Sc	S600Vc
Flash Type		iTemp MLC / 3D NAND TLC	MLC	iTemp 3D NAND TLC	3D NAND TLC	3D NAND TLC
Density		8 GB to 128 GB	8 GB to 32 GB	32 GB to 128 GB	32 GB to 128 GB	32 GB to 128 GB
Performance	Sequential Read up to (MB/s)	94	79	94	94	80
	Sequential Write up to (MB/s)	54	75	54	54	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	39 TB	77 TB	77 TB	77 TB
	MTBF @ 25°C	>2,000,000 hours				>1,000,000 hours
	Number of Insertions:	20,000 (SDA spec minimum 10,000)				
Dimensions: L x W x H (mm)		15.0 x 11.0 x 1.0				

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

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

ATP Global Footprint

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