



ATP mSATA Embedded SSD

Targeted Product Portfolio, Engineered Specifically for Your
Mission Critical Applications



Just roughly the size of a business card, ATP's mSATA SSDs offer up to 512 GB capacity and the same speed and efficiency of SATA. They are designed to fit in systems with space constraints and high-performance requirements such as embedded and networking applications.

Two mounting holes keep the mSATA module securely installed, protecting it from shock and vibration. ATP mSATA SSDs are available in industrial temperature ratings for trustworthy performance in sub-freezing or extremely hot settings. Available on select mSATA SSDs is PowerProtector 4, ATP's advanced power loss protection (PLP) technology, which combines hardware and software solutions to prevent data corruption and storage device damage when power glitches, losses and failures occur.

Key Features

- Global wear leveling
- TRIM function support
- AutoRefresh and Idle Clean F/W algorithm
- Firmware live update
- PowerProtector
- MCU-based Power Protector 4* May vary by product and project support

Applications

- Telecommunications
- Industrial & Embedded
- Gaming & Digital Signage
- Medical & Field Equipment
- Server & Storage
- Ruggedized Tablets



Specifications

Product Name		mSATA			
Product Line		Premium		Superior	
Naming		A800Pi	A700Pi	A600Si	A600Sc
Flash Type		SLC	iTemp SLC mode	iTemp MLC	MLC
Density		8 GB to 128 GB	64 GB to 256 GB	16 GB to 512 GB	
Performance	Sequential Read up to (MB/s)	530	550	550	
	Sequential Write up to (MB/s)	430	440	450	
	Random Read IOPS up to	76,000	73,700	70,000	
Interface		SATA III 6 Gb/s			
Operating Temperature		-40°C to 85°C		-40°C to 85°C	0°C to 70°C
Endurance	TBW* (max.)	10,667 TB	8,533 TB	1,067 TB	1,280 TB
	DWPD* (max.)	77.9	46.8	2.9	3.5
Reliability MTBF @ 25°C		>5,000,000 hours		>2,000,000 hours	
Dimensions: L x W x H (mm)		50.8 x 29.85 x 3.4			

Product Name		mSATA		
Product Line		Superior		Value
Naming		A600Si	A600Sc	A600Vc
Flash Type		iTemp 3D TLC	3D TLC	TLC
Density		120 GB to 480 GB		32 GB to 512 GB
Performance	Sequential Read up to (MB/s)	560		450
	Sequential Write up to (MB/s)	440		440
	Random Read IOPS up to	100,000		70,000
Interface		SATA III 6 Gb/s		
Operating Temperature		-40°C to 85°C	0°C to 70°C	0°C to 70°C
Endurance	TBW* (max.)	1,396 TB		590 TB
	DWPD* (max.)	5.0		1.6
Reliability MTBF @ 25°C		>2,000,000 hours		
Dimensions: L x W x H (mm)		50.8 x 29.85 x 3.5		50.8 x 29.85 x 3.4

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

Technologies & Add-On Services		Life Monitor	PowerProtector	Advanced Wear Leveling	AutoRefresh	Dynamic Data Refresh	Secure Erase	Industrial Temperature	Anti-Sulfur Resistors	Conformal Coating
Product Line	Premium	●	●	●	●	●	●	●	Δ	Δ
	Superior	●	●	●	●	●	●	Δ	Δ	Δ
	Value	●		●	●	●				

Δ: Customization option available on a project basis.

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

ATP Global Footprint

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