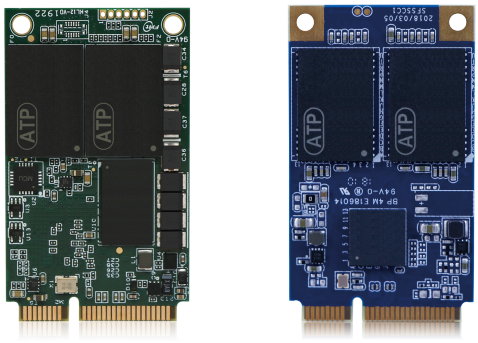
ATP mSATA Embedded SSD

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, 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

- MCU-based Power Loss Protection Design*
- LDPC & RAID Data Recovery
- End-to-End Data Protection
- TRIM / Global Wear Leveling support
- AutoRefresh and Idle Clean F/W algorithm

* Customization available on a project basis

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	Pseudo SLC	MLC	MLC
Density		8 GB to 128 GB	80 GB to 160 GB	16 GB to 64 GB	
Performance	Sequential Read up to (MB/s)	530	560	440	
	Sequential Write up to (MB/s)	430	520	80	
	Random Read IOPS up to	76,000	94,000	38,400	
Interface		SATA III 6 Gb/s			
Operating Temperature (Tcase)*		-40°C to 85°C		-40°C to 85°C	0°C to 70°C
Endurance TBW** (max.)		10,667 TB	6,400 TB	145.5 TB	174.6 TB
Reliability MTBF @ 25°C		>2,000,000 hours			
Dimensions: L x W x H (mm)		50.8 x 29.85 x 3.5			

Product Name		mSATA		
Product Line		Superior		Value
Naming		A600Si	A600Sc	A600Vc
Flash Type		TLC	TLC	TLC
Density		120 GB to 480 GB	120 GB to 480 GB	32 GB to 512 GB
Performance	Sequential Read up to (MB/s)	560		560
	Sequential Write up to (MB/s)	440		440
	Random Read IOPS up to	100,000		72,000
Interface		SATA III 6 Gb/s		
Operating Temperature (Tcase)*		-40°C to 85°C	0°C to 70°C	0°C to 70°C
Endurance TBW** (max.)		1,396 TB		590.8 TB
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 3.5

* Case Temperature, the composite temperature as indicated by SMART temperature attributes.
** Under highest Sequential write value. May vary by density, configuration and applications.

Technologies & Add-On Services	S.M.A.R.T.	Hardware-based Power Loss Protection	Advanced Wear Leveling	AutoRefresh	Dynamic Data Refresh	Secure Erase	Industrial Temperature	Anti-Sulfur Resistors	Conformal Coating
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.

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