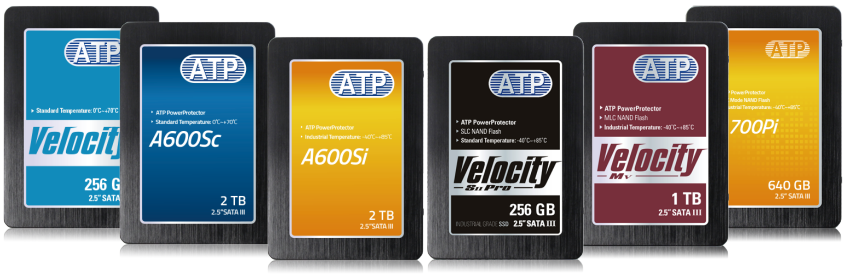
ATP 2.5" SATA SSDs
Industrial Grade

ATP offers various 2.5" SSDs in SLC, MLC and pseudo SLC types with SATAIII interfaces. ATP SSDs are designed for different applications, including industrial computers, data center, POS, networking, thin clients and other industrial applications.



Key Features

- MCU-based Power Loss Protection Design*
- LDPC & RAID Data Recovery
- End-to-End Data Protection
- TRIM / Global Wear Leveling support
- Write-protect disabled/enabled
- NSA-compliant Secure Erase

* Customization available on a project basis

ATP's shock/vibration-resistant industrial 2.5" SSDs are encased in durable enclosures for outstanding performance in challenging environments. The convenient 2.5" form factor and SATA III interface allow easy integration into SATA-based systems, while unique ATP technologies ensure extended endurance for long years of dependable use.

ATP 2.5" SSDs feature Power Loss Protection Design technology, which combines hardware and firmware solutions to ensure that data is preserved and protected during a sudden power failure. The MCU design also protects the storage device from damage by allowing the power loss protection (PLP) to intelligently manage power challenges such as inrush current, input overvoltage, incorrect cache flushing and more.

ATP's 2.5" SSDs comply with US National Security Agency (NSA) and MIL-STD-810G standards. They support the S.M.A.R.T. ATA feature set and Advanced Wear Leveling algorithm for enhanced endurance.

Applications

- IPC
- Blades
- AdvancedTCA
- Single board computers
- Surveillance & security
- Networking appliance

Specifications

Product Name		2.5" SSD			
Product Line		Premium		Superior	
Naming		A800Pi	A700Pi	A600Si	A600Sc
Flash Type		SLC	Pseudo SLC	MLC	MLC
Density		8 GB to 256 GB	80 GB to 640 GB	64 GB	
Performance	Sequential Read up to (MB/s)	520	560	440	
	Sequential Write up to (MB/s)	420	520	80	
	Random Read IOPS up to	76,000	95,000	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.)		21,333 TB	25,600 TB	145.5 TB	174.6 TB
Reliability	MTBF @ 25°C	>2,000,000 hours			
	Number of Insertions	10,000 minimum			
Dimensions: L x W x H (mm)		100.0 x 69.9 x 9.2	100.0 x 69.9 x 7 / 9.2	100.0 x 69.9 x 9.2	

Product Name		2.5" SSD		
Product Line		Superior		Value
Naming		A600Si	A600Sc	A600Vc
Flash Type		TLC	TLC	TLC
Density		120 GB to 1920 GB	120 GB to 1920 GB	32 GB to 512 GB
Performance	Sequential Read up to (MB/s)	560		560
	Sequential Write up to (MB/s)	500		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.)		5,585 TB		590.8 TB
Reliability	MTBF @ 25°C	>2,000,000 hours		
	Number of Insertions	10,000 minimum		
Dimensions: L x W x H (mm)		100.0 x 69.9 x 7 / 9.2		100.0 x 69.9 x 7.0

* 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.

ATP Global Footprint

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