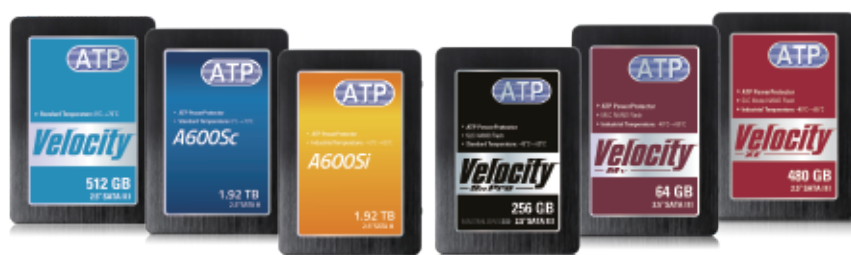# ATP 2.5" SATA SSDs
Industrial Grade

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

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 PowerProtector 4 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.

Key Features

- Global wear leveling
- TRIM function support
- Static Data Refresh and Idle Clean F/W algorithm
- Firmware live update
- MCU-based Power Protector 4 (May vary by product and project support.)
- Write protect disabled/enabled
- NSA-compliant Secure Erase

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	iTemp pseudo SLC	iTemp MLC	MLC
Density		8 GB to 256 GB	60 GB to 480 GB	64 GB	
Performance	Sequential Read up to (MB/s)	520	540	440	
	Sequential Write up to (MB/s)	420	500	80	
	Random Read IOPS up to	76,000	100,000	38,400	
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.)	21,333 TB	18,000 TB	145.5 TB	174.6 TB
	DWPD* (max.)	77.9	20	3.1	3.8
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		iTemp 3D TLC	3D TLC	3D TLC
Density		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)	480		440
	Random Read IOPS up to	100,000		72,000
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.)	5,585 TB		590.8 TB
	DWPD* (max.)	4.0		1.6
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

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

Technologies & Add-On Services		S.M.A.R.T.	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

www.atpinc.com