



SATA III 2.5" SSD

The Global Leader in Specialized Storage and Memory Solutions



KEY FEATURES

- Endurance: 1 DWPD (5 years Enterprise workload)
- Data Retention: Up to 10 years at 55 °C (pSLC)
- Power Loss Protection: MCU-based* with data-at-rest and in-flight protection
- PLP Diag* (Self-Diagnosing Capacitor Check)
- EcoFlush* (Flush Cache Optimization Technology)
- Security: Self-Encrypting Drive (SED) with AES 256-bit encryption, TCG Opal 2.0*
- End-to-End Data Path Protection

* May vary by product and project support

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.

Power Loss Protection Design technology options combines hardware and/or 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.

Specifications

Product Line	Premium		Superior	Value	Momentum	
	A800Pi	A750Pi / A750Pc	A650Si / A650Sc	A600Vi / A600Vc	A400Mw ¹	A400Mw
Interface	SATA III 6 Gb/s					
Flash Type	SLC	3D TLC (pSLC mode)	3D TLC			
Form Factor	2.5"					
Operating Temperature	-40°C to 85°C	-40°C to 85°C / 0°C to 70°C			-20°C to 75°C	
Power Loss Protection Options	Hardware + Firmware Based			Firmware Based		
Optional SED Features	-	AES 256-bit Encryption, TCG Opal 2.0		-	AES 256-bit Encryption	
Capacity	8 GB to 256 GB	80 GB to 640 GB	240 GB to 1,920 GB	128 GB to 1,024 GB	256 GB to 4 TB	128 GB to 1TB
Performance						
Sequential Read (MB/s) up to	520	560			550	
Sequential Write (MB/s) up to	420	510	525	525	520	500
Random Reads IOPS up to	76,000	92,000	103,000	70,000	65,000	72,000
Random Writes IOPS up to	74,000	85,000	90,000	92,500	80,000	86,000
Endurance and Reliability						
Endurance (TBW) ² up to	21,330 TB	59,250 TB	20,480 TB	1,530 TB	750 TB	
Reliability MTBF @ 25°C	>2,000,000 hours	>3,000,000 hours		>2,000,000 hours	>3,000,000 hours	
Reliability Number of Insertions	10,000 minimum					
Others						
Dimensions (mm)	100 x 69.85 x 9.2	100 x 69.85 x 7/9.2			100 x 69.85 x 7	
Certifications	CE, FCC, BSMI, UKCA, RoHS, REACH					
Warranty	5 years		3 years		2 years	

1. Product specifications may be subject to change.
2. Under highest Sequential write value. May vary by density, configuration and applications.

Technologies	S.M.A.R.T/ Life Monitor	PLP Diag	Ace Thermal Throttling	AcuCurrent	EcoFlush	Industrial Temperature	Pulse Reboot	Firmware-Based Data-At-Rest Power Loss Protection	Hardware-Based In-Flight-Data Power Loss Protection	Advanced Wear Leveling	AutoRefresh	Dynamic Data Refresh	Auto-Read Calibration	ETEDP	SED	Software Secure Erase	Hardware Secure Erase	Hardware Write Protect
Premium	A750Pi / A750Pc	○	○	○	▲	○	○	▲	○	○	○	○	○	○	○	○	▲	▲
Superior	A650Si / A650Sc	○	○	○	▲	○	○	▲	○	○	○	○	○	○	○	○	▲	▲
Value	A600Vi / A600Vc	○				○		○		○	○	○	○	○				
Momentum	A400Mw	○						○		○	○	○	○	○	▲	○		

▲: Customization option available on a project basis.



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WE BUILD WITH YOU

Product spec and its related information are subject to change without advance notice.
Please refer to www.atpinc.com for latest information

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