



SATA III mSATA 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

Just roughly the size of a business card, ATP's mSATA SSDs offer up to 1 TB 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/or software solutions to prevent data corruption and storage device damage when power glitches, losses and failures occur.

Specifications

Product Line	Premium		Superior		Value						
	A800Pi	A750Pi / A750Pc	A650Si / A650Sc	A600Vi / A600Vc							
Interface	SATA III 6 Gb/s										
Flash Type	SLC	3D TLC (pSLC mode)	3D TLC								
Form Factor	MO-300A										
Operating Temperature	-40°C to 85°C	-40°C to 85°C / 0°C to 70°C									
Power Loss Protection Options	Hardware + Firmware Based				Firmware Based						
Optional SED Features	-	AES 256-bit Encryption, TCG Opal 2.0			-						
Capacity	8 GB to 128 GB	80 GB to 320 GB	240 GB to 960 GB	128 GB to 1,024 GB							
Performance											
Sequential Read (MB/s) up to	530	560									
Sequential Write (MB/s) up to	430	510	525								
Random Reads IOPS up to	77,000	92,000	104,000	70,000							
Random Writes IOPS up to	75,000	85,000	90,000	92,000							
Endurance and Reliability											
Endurance (TBW) ¹ up to	10,666 TB	29,620 TB	10,240 TB	1,530 TB							
Reliability MTBF @ 25°C	>2,000,000 hours	>3,000,000 hours			>2,000,000 hours						
Others											
Dimensions (mm)	50.8 x 29.85 x 3.5										
Certifications	CE, FCC, UKCA, RoHS, REACH	CE, FCC, BSMI, UKCA, RoHS, REACH									
Warranty	5 years	3 years									

1. 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	○					○		○		○	○	○	○					

▲: Customization option available on a project basis.



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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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