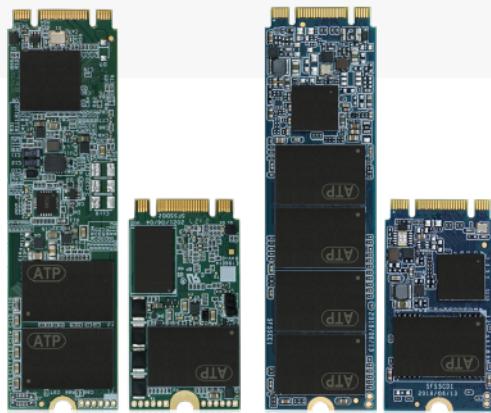




SATA III M.2 SSD

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 Industrial M.2 Serial ATA (SATA) solid state modules are available in types 2242 and 2280. These lean modules provide higher performance and capacity while minimizing the overall module footprint, making them perfect choices for small systems installed in limited spaces.

Available in both double- and single-sided configurations, M.2 SATA SSDs are packed with high densities and can withstand severe temperature shifts common in industrial environments, thanks to wide operating temperature ratings of -40 °C to 85 °C.

ATP M.2 modules are suitable for networking and thin storage systems, point-of-sale systems (POS), and industrial computer applications. Select M.2 SATA SSDs feature a microcontroller unit (MCU) design for enhanced power loss protection (PLP) in various temperatures, power glitches and charge states, thus safeguarding data and storage device for higher levels of integrity and reliability.

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.

Specifications

Product Line	Premium	Superior	Value	Momentum					
	A750Pi / A750Pc	A650Si / A650Sc	A600Vi / A600Vc	A400Mw ¹	A400Mw				
Interface	SATA III 6 Gb/s								
Flash Type	3D TLC (pSLC mode)	3D TLC		3D TLC					
Form Factor	M.2 2280 D2-B-M				M.2 2280 S2-B-M				
Operating Temperature	-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	80 GB to 320 GB	240 GB to 960 GB	128 GB to 1,024 GB	256 GB to 4 TB	128 GB to 1 TB				
Performance									
Sequential Read (MB/s) up to	560			550					
Sequential Write (MB/s) up to	510	520	525	520	500				
Random Reads IOPS up to	92,000	103,000	70,000	65,000	72,000				
Random Writes IOPS up to	83,000	86,000	92,000	80,000	86,000				
Endurance and Reliability									
Endurance (TBW) ² up to	29,620 TB	10,240 TB	1,530 TB	750 TB					
Reliability MTBF @ 25°C	>3,000,000 hours		>2,000,000 hours	>3,000,000 hours					
Others									
Dimensions (mm)	80 x 22 x 3.35			80 x 22 x 2.2					
Certifications	CE, FCC, BSMI, UKCA, RoHS, REACH								
Warranty	5 years	3 years		2 years					
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	M.2 2242 D6-B-M				M.2 2242 D2-B-M				
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 64 GB	80 GB to 320 GB	240 GB to 960 GB	128 GB to 1,024 GB					
Performance									
Sequential Read (MB/s) up to	535	560							
Sequential Write (MB/s) up to	400	515	525	525					
Random Reads IOPS up to	76,000	92,000	104,000	70,000					
Random Writes IOPS up to	76,000	86,000	92,000	92,000					
Endurance and Reliability									
Endurance (TBW) ² up to	5,330 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)	42 x 22 x 3.5								
Certifications	CE, FCC, BSMI, UKCA, RoHS, REACH								
Warranty	5 years	3 years							

1. Product specifications may be subject to change.

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



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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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