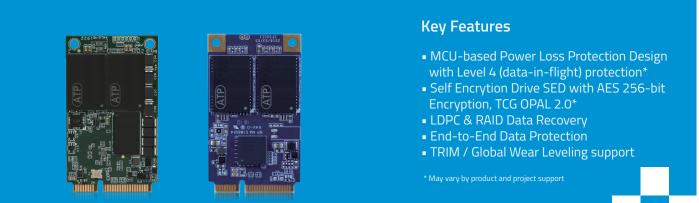


mSATA

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



Just roughly the size of a business card, ATP's mSATA SSDs offer up to 512 GB 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.

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	•	•	٠	•	•	٠	•	Δ	Δ
Superior	•	٠	٠	٠	٠	٠	Δ	Δ	Δ
Value	•		٠	•	•				

Δ: Customization option available on a project basis.

Specifications

mSATA							
Product Line		A800Pi	A700Pi	A600Si	A600Sc		
Interface		SATA III 6 Gb/s					
	Flash Type	SLC	Pseudo SLC	MLC			
	Form Factor	MO-300A					
Operating	g Temperature (Tcase) ¹	-40°C to 85°C		-40°C to 85°C	0°C to 70°C		
Power Lo	oss Protection Options		Hardware + Firmware Based or Firmware Based				
Opti	onal SED Features	AES 128/256-bit Encryption	AES 256-bit Encryption, TCG Opal 2.0		-		
	Capacity		80 GB to 160 GB	16 GB to 64 GB			
	Performance						
	Sequential Read (MB/s) up to	530	560	440			
Performance	Sequential Write (MB/s) up to	430	520	80			
	Random Read IOPS (4K, QD32) up to	76,000	94,000	38,400			
	Random Writes IOPS (4K, QD32) up to	-	85,000	-			
Endur	ance and Reliability						
Endu	rance (TBW) ² up to	10,667 TB	6,400 TB	145.5 TB	174.6 TB		
Reliat	pility MTBF @ 25°C	>2,000,000 hours					
Data Retention @ 30°C ³		10 years (with 10% P/E cycle)	5 years (with 10% P/E cycle)	5 years (with 10% P/E cycle)			
Others							
Power Consumption		3.3V Input Power					
Dimensions: L x W x H (mm)		50.8 x 29.85 x 3.5					
Certifications		CE, FCC	CE, FCC,BSMI,RoHS, REACH CE, FCC		FCC		
Warranty		5 years 2 years			ears		

mSATA						
Product Line		A600Si	A600Sc	A600Vc		
Interface		SATA III 6 Gb/s				
	Flash Type	3D TLC				
	Form Factor	МО-ЗООА				
Operating	g Temperature (Tcase) ¹	-40°C to 85°C	0°C to 70°C	0°C to 70°C		
Power Lo	oss Protection Options	Hardware + Firmware Based or Firmware Based				
Optio	onal SED Features	AES 256-bit Enc	ryption, TCG Opal 2.0	-		
	Capacity		o 480 GB	32 GB to 512 GB		
	Performance					
	Sequential Read (MB/s) up to	560		560		
Performance	Sequential Write (MB/s) up to	440		440		
· circinatice	Random Read IOPS (4K, QD32) up to	100,000		72,000		
	Random Writes IOPS (4K, QD32) up to	88,000		85,000		
Endur	ance and Reliability					
Endu	rance (TBW) ² up to	1,396 TB		590.8 TB		
Reliat	ility MTBF @ 25°C	>2,000,000 hours				
Data Retention @ 30°C ³		5 years (with 10% P/E cycle)				
Others						
Power Consumption		3.3V Input Power				
Dimensions: L x W x H (mm)		50.8 x 29.85 x 3.5				
Certifications		CE, FCC,BSMI,RoHS, REACH		CE, FCC		
Warranty			2 years			

¹ Case Temperature, the composite temperature as indicated by SMART temperature attributes.
² Under highest Sequential write value. May vary by density, configuration and applications.
³ Data retention value may vary across different temperature ranges. It is based on experimental results and should be used only for reference.

Hot Items Ordering Information						
Product Line	Capacity ₁	Operating Temperature ₂	Power Loss Protection ₃	SED ₄	P/N	
A800Pi	8GB	-40°C to 85°C	Hardware + Firmware Based	-	AF8GSSHI-VACXP	
A800Pi	16GB	-40°C to 85°C	Hardware + Firmware Based	-	AF16GSSHI-VACXP	
A800Pi	32GB	-40°C to 85°C	Hardware + Firmware Based	-	AF32GSSHI-VACXP	
A800Pi	64GB	-40°C to 85°C	Hardware + Firmware Based	-	AF64GSSHI-VACXP	
A800Pi	128GB	-40°C to 85°C	Hardware + Firmware Based	-	AF128GSSHI-VAAXP	
A6005c	120GB	0°C to 70°C	Hardware + Firmware Based	-	AF120GSTHI-7BAXP	
A6005c	240GB	0°C to 70°C	Hardware + Firmware Based	-	AF240GSTHI-7BAXP	
A6005c	480GB	0°C to 70°C	Hardware + Firmware Based	-	AF480GSTHI-7BAXP	
A600Vc	32GB	0°C to 70°C	Firmware Based	-	AF32GSTHI-2BAXX	
A600Vc	64GB	0°C to 70°C	Firmware Based	-	AF64GSTHI-2BAXX	
A600Vc	128GB	0°C to 70°C	Firmware Based	-	AF128GSTHI-2BAXX	
A600Vc	256GB	0°C to 70°C	Firmware Based	-	AF256GSTHI-2BAXX	
A600Vc	512GB	0°C to 70°C	Firmware Based	-	AF512GSTHI-2BAXX	

¹ Case Temperature, the composite temperature as indicated by SMART temperature attributes.
² Under highest Sequential write value. May vary by density, configuration and applications.
³ Data retention value may vary across different temperature range and is experimental result to be used for reference.
⁴ Allows data written to and read from the SSD to be constantly and automatically encrypted and decrypted. Conforms to TCG Opal 2.0 and uses AES 256-bit HW encryption.

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

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