ATP mSATA Embedded SSD

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 is PowerProtector 4, ATP's advanced power loss protection (PLP) technology, which combines hardware and software solutions to prevent data corruption and storage device damage when power glitches, losses and failures occur.

Key Features

- Global wear leveling
- TRIM function support
- AutoRefresh and Idle Clean F/W algorithm
- Firmware live update
- MCU-based Power Protector 4
  (May vary by product and project support.)

Applications

- Telecommunications
- Industrial & Embedded
- Gaming & Digital Signage
- Medical & Field Equipment
- Server & Storage
- Ruggedized Tablets

Specifications

Product Name	mSATA			
Product Line	Premium		Superior	
Naming	A800Pi	A700Pi	A600Si	A600Sc
Flash Type	SLC	iTemp SLC mode	iTemp MLC	MLC
Density	8 GB to 128 GB	60 GB to 120 GB	16 GB to 64 GB	
Performance — Sequential Read up to (MB/s)	530	560	440	
Performance — Sequential Write up to (MB/s)	430	500	80	
Performance — 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.)	10,667 TB	4,500 TB	145.5 TB	174.6 TB
Endurance — DWPD* (max.)	77.9	20	3.1	3.8
Reliability MTBF @ 25°C	>2,000,000 hours			
Dimensions: L x W x H (mm)	50.8 x 29.85 x 3.5			

Product Name	mSATA		
Product Line	Superior		Value
Naming	A600Si	A600Sc	A600Vc
Flash Type	iTemp 3D TLC	3D TLC	3D TLC
Density	120 GB to 480 GB		32 GB to 512 GB
Performance — Sequential Read up to (MB/s)	560		560
Performance — Sequential Write up to (MB/s)	440		420
Performance — 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.)	1,396 TB		590.8 TB
Endurance — DWPD* (max.)	4.0		1.6
Reliability MTBF @ 25°C	>2,000,000 hours		
Dimensions: L x W x H (mm)	50.8 x 29.85 x 3.5		50.8 x 29.85 x 3.5

* 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
Product Line — Superior	●	●	●	●	●	●	Δ	Δ	Δ
Product Line — Value	●		●	●	●				

Δ: Customization option available on a project basis.

To learn more about this product, contact your ATP Representative.

ATP Global Footprint