

ATP M.2 SATA

Embedded SSD

Targeted Product Portfolio, Engineered Specifically for Your Mission Critical Applications



ATP's M.2 Serial ATA (SATA) solid state modules are available in types 2242, 2260 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.

Adopting the double-sided M.2 configuration, 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.

Key Features

- Global wear leveling
- TRIM function support
- Static Data Refresh and Idle Clean F/W algorithm
- Firmware live update
- PowerProtector

Applications

- Networking
- Thin clients
- Enterprise storage systems

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
	Superior	●	●	●	●	●	●	Δ	Δ	Δ
	Value	●		●	●	●				

Δ: Customization option available on a project basis.



Specifications

Product Name	M.2							
	2242 D2-B-M				2260 D2-B-M			
Product Line	Premium	Superior		Value	Premium		Superior	
Naming	A800Pi	A600Si	A600Sc	A600Vc	A800Pi	A700Pi	A600Si	A600Sc
Flash Type	SLC	iTemp MLC	MLC	TLC	SLC	iTemp SLC mode	iTemp MLC	MLC
Density	8 GB to 64 GB	16 GB to 256 GB		32 GB to 128 GB	32 GB to 128 GB	64 GB to 256 GB	64 GB to 512 GB	
Performance Sequential Read up to (MB/s)	530	550		450	530	550	550	
Performance Sequential Write up to (MB/s)	400	350		220	430	440	450	
Performance Random Read IOPS up to	76,000	70,000		61,000	76,000	73,000	70,000	
Interface	SATA III 6 Gb/s							
Operating Temperature	-40°C to 85°C	-40°C to 85°C	0°C to 70°C	0°C to 70°C	-40°C to 85°C		-40°C to 85°C	0°C to 70°C
Endurance TBW* (max.)	5,333 TB	533 TB	640 TB	147.7TB	10,677 TB	8,533 TB	1,067 TB	1,280 TB
Endurance DWPD* (max.)	77.9	2.9	3.5	1.6	77.9	46.8	2.9	3.5
Reliability MTBF @ 25°C	>2,000,000 hours							
L x W x H (mm)	42.0 x 22.0 x 3.5			42.0 x 22.0 x 3.2	60.0 x 22.0 x 3.5			

Product Name	M.2			
	2280 D2-B-M			2280 S2-B-M
Product Line	Premium	Superior		Value
Naming	A700Pi	A600Si	A600Sc	A600Vc
Flash Type	iTemp SLC mode	iTemp MLC	MLC	TLC
Density	64 GB to 512 GB	128 GB to 1 TB		32 GB to 128 GB
Performance Sequential Read up to (MB/s)	550	550		450
Performance Sequential Write up to (MB/s)	440	450		220
Performance Random Read IOPS up to	73,000	70,000		61,000
Interface	SATA III 6 Gb/s			
Operating Temperature	-40°C to 85°C	-40°C to 85°C	0°C to 70°C	0°C to 70°C
Endurance TBW* (max.)	17,066 TB	2,133 TB	2,560 TB	147.7TB
Endurance DWPD* (max.)	46.8	2.9	3.5	1.6
Reliability MTBF @ 25°C	>2,000,000 hours			
L x W x H (mm)	80.0 x 22.0 x 3.5			80.0 x 22.0 x 2.2

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

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

ATP Global Footprint

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