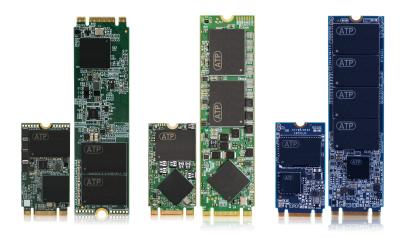


# ATP M.2 SATA Industrial Grade

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 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. 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.

### **Key Features**

- MCU-based Power Loss Protection Design\*
- LDPC & RAID Data Recovery
- End-to-End Data Protection
- TRIM / Global Wear Leveling support
- \* Customization available on a project basis

# Applications

- Networking
- Thin clients
- Enterprise storage systems

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

Δ: Customization option available on a project basis.



## **Specifications**

Product Name	M.2								
Product Name	2242 D2-B-M								
Product Line		mium				Value			
Naming	A800Pi	A700Pi	A600Si	A600Sc	A600Si	A600Sc	A600Vc		
Flash Type	SLC	Pseudo SLC	MLC	MLC	TLC	TLC	TLC		
Density	8 GB to 64 GB	80 GB to 160 GB	16 GB to 64 GB	16 GB to 64 GB	120 GB to 480 GB	120 GB to 480 GB	32 GB to 128 GB		
Performance Sequential Read up to (MB/s)	530	560	440	440	560	560	560		
Performance Sequential Write up to (MB/s)	400	520	80	80	440	440	420		
Performance Random Read IOPS up to	76,000	84,500	38,400	38,400	100,000	100,000	68,000		
Interface	SATA III 6 Gb/s								
Operating Temperature (Tcase)*	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	0°C to 70°C	-40°C to 85°C	0°C to 70°C	0°C to 70°C		
Endurance TBW** (max.)	5,333 TB	6,400 TB	145.5 TB	174.6 TB	1,396 TB	1,396 TB	147.7 TB		
Reliability MTBF @ 25°C	>2,000,000 hours								
Dimensions: L x W x H (mm)	42.0 x 22.0 x 3.5					42.0 x 22.0 x 3.2			

Due duet Neme	M.2 SATA							
Product Name		2280 S2-B-M						
Product Line								
Naming	A700Pi	A600Si	A600Sc	A600Vc				
Flash Type	Pseudo SLC	TLC	TLC	TLC				
Density	80 GB to 320 GB	120 GB to 960 GB	120 GB to 960 GB	32 GB to 512 GB				
Performance Sequential Read up to (MB/s)	560	5	560					
Performance Sequential Write up to (MB/s)	520	440		440				
Performance Random Read IOPS up to	94,000	100,000		72,000				
Interface		SATA III 6 Gb/s						
Operating Temperature (Tcase)*	-40°C to 85°C	-40°C to 85°C	0°C to 70°C	0°C to 70°C				
Endurance TBW** (max.)	12,800 TB	2,792 TB	2,792 TB	590.8 TB				
Reliability MTBF @ 25°C	>2,000,000 hours							
Dimensions: L x W x H (mm)	80.0 x 22.0 x 3.5	80.0 x 2	22.0 x 3.35	80.0 x 22.0 x 2.2				
Dimensions: L x W x H (mm)	80.0 x 22.0 x 3.5	80.0 x 2	22.0 x 3.35	80.0 x 22.0 x 2.2				

\* Case Temperature, the composite temperature as indicated by SMART temperature attributes. \*\* Under highest Sequential write value. May vary by density, configuration and applications.

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

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