



The Global Leader in Specialized Storage and Memory Solutions

WE BUILD WITH YOU

ATP MOMENTUM LINE STORAGE AND MEMORY SOLUTIONS



Emphasizing rapid time-to-market, broad compatibility, and cost-efficient storage, the ATP Momentum Line combines cutting-edge technology with essential solutions tailored to meet the diverse needs of the industrial market. With ATP's commitment to quality control and rigorous verification processes, our products consistently deliver dependable results.

Offering a range of mainstream specifications and storage capacities, the ATP Momentum Line provides versatile options for various industrial applications.

PRODUCT FLYER

ATP Momentum Line SSDs: Fast, Flexible, Industrial-Grade Performance

ATP Momentum Line SSDs are optimized for read-intensive tasks and mixed workloads, offering extended commercial operating temperature range with I-Temp-operable options* and outstanding cost-per-GB value for various industrial applications.



-20°C to 75°C

Extended Commercial operating temperature range



SERVICE

- Rapid lead time
- Full BoM guarantee
- Supply longevity support of up to 3 years



QUALITY

- Wafer-to-finished product process ownership
- Traceability to the production line
- In-house testing/quality process

ATP Momentum Line SSDs

N601Mi/Mw

PCIe® Gen4 NVMe M.2 2280 SSD

- PCIe Gen4 x4, NVMe 1.4
- Capacities: 256 GB to 4 TB
- Operating Temp: -40°C to 85°C / -20°C to 75°C*
- Power loss protection for data at rest
- AutoRefresh mitigates hot zone read disturb errors
- End-to-End Data Path Protection
- Host Memory Buffer (HMB) support
- AES 256-bit Encryption*

N400Mw

PCIe® Gen3 NVMe M.2 2280 SSD

- PCIe Gen3 x4, NVMe 1.3
- Capacities: 128 GB to 1 TB
- Operating Temp: Extended Commercial (-20°C to 75°C)
- Power loss protection for data at rest
- AutoRefresh mitigates hot zone read disturb errors
- Auto-Read Calibration (ARC) for precise voltage adjustment
- End-to-End Data Path Protection
- Host Memory Buffer (HMB) support
- AES 256-bit Encryption*

A400Mw

SATA III M.2 2280 SSD / 2.5" SSD

- SATA III 6 Gb/s
- Capacities: 128 GB to 4 TB
- Operating Temp: Extended Commercial (-20°C to 75°C)
- Power loss protection for data at rest
- Auto-Read Calibration (ARC) for precise voltage adjustment
- Power-efficient DRAM-less design
- AES 256-bit Encryption*

* Optional

Targeted Market Segments

INDUSTRIAL
PC

THIN
CLIENT

AUTOMATION

MEDICAL

ATM

POS &
RETAIL

KIOSK &
DIGITAL
SIGNAGE

CASINO
GAMING

Product Line	PCIe® Gen4 NVMe M.2 2280 SSD			PCIe® Gen3 NVMe M.2 2280 SSD	SATA III M.2 2280		SATA III 2.5" SSD	
	Momentum							
	N601Mi¹	N601Mw	N401Mw¹	N400Mw	A400Mw¹	A400Mw	A400Mw¹	A400Mw
Interface	PCIe G4 x4			PCIe G3 x4	SATA III 6 Gb/s			
Flash Type	3D TLC							
Form Factor	M.2 2280 S3-M			M.2 2280 S2-M	M.2 2280 S2-B-M		2.5"	
Operating Temperature	-40°C to 85°C			-20°C to 75°C				
Power Loss Protection Options	Firmware Based							
Optional SED Features	AES 256-bit Encryption							
Capacity	256 GB to 4 TB			128 GB to 1 TB	256 GB to 4 TB	128 GB to 1 TB	256 GB to 4 TB	128 GB to 1 TB
Performance								
Sequential Read (MB/s) up to	5,800	7,200	7,200	2,600	550			
Sequential Write (MB/s) up to	5,200	6,500	6,500	1,800	520	500	520	500
Random Reads IOPS up to	800,000	1,000,000	900,000	240,000	65,000	72,000	65,000	72,000
Random Writes IOPS up to	1,000,000	1,200,000	1,000,000	300,000	80,000	86,000	80,000	86,000
Endurance and Reliability								
Endurance (TBW)² up to	6,000 TB		3,200 TB	695 TB	750 TB			
Reliability MTBF @ 25°C	>3,000,000 hours							
Others								
Dimensions (mm)	80.0 x 22.0 x 2.2						100 x 69.85 x 7	
Certifications	CE, FCC, BSMI, UKCA, RoHS, REACH							
Warranty	2 years							

1. Product specifications may be subject to change.

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

ATP Momentum Line DRAM: DDR5

The new Momentum Line industrial DRAM modules offer mainstream data transfer rates combined with a low power consumption, ensuring faster performance and greater power savings. They adhere to all JEDEC standards and utilize top-tier DRAM chips to provide high levels of reliability, compatibility, and stability across various industrial applications. With ATP's commitment to quality control and rigorous verification processes, these modules consistently deliver dependable results.



KEY FEATURES

- Densities: 8 GB* to 32 GB
- JEDEC Compliant
- Top-tier DRAM chips and production traceability
- Decreased voltage for better power efficiency
- Unique ATP TDBI decreases error rate over time
- Designed and validated for confident data integrity and compatibility
- Operating Temperature: -40°C to 85°C / 0°C to 85°C

MOMENTUM DRAM MODULES ARE IDEAL FOR USE IN:

- Industrial PCs
- Retail/point-of-sale systems (POS)
- Kiosks/Digital Signages
- Casino Gaming
- Thin-client PCs
- Automation
- ATM
- Medical & Healthcare

* May vary by product and project support

Product	DIMM Type	Density	Speed (MT/s, up to)	Operating Temp.	PCB Height	ATP TDBI	Wide Temperature		
DDR5	Non-ECC UDIMM	8 GB	5600	0°C to 85°C	Low Profile	●			
		16 GB							
		32 GB							
	Non-ECC SO-DIMM	8 GB		-40°C to 85°C					
		16 GB							
		32 GB							
	Non-ECC UDIMM	8 GB					●		
		16 GB					●		
		32 GB					●		
	Non-ECC SO-DIMM	8 GB					●		
		16 GB					●		
		32 GB					●		
	ECC UDIMM	16 GB	5600	0°C to 85°C	Low Profile	●			
		32 GB							
		32 GB							
	ECC SO-DIMM	16 GB		-40°C to 85°C					
		32 GB							
		32 GB							
	ECC UDIMM	16 GB					●		
		32 GB					●		
		32 GB					●		
	ECC SO-DIMM	16 GB					●		
		32 GB					●		
		32 GB					●		



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