

Momentum Line SSDs Overview:

- Extended-Commercial Temp Operable (-20°C to 75°C)
- Ideal for Write-Moderate, Read-Intensive applications
- DRAM-less power-efficient design
- Data-at-rest power loss protection (Firmware-based)

Targeted Market Segments for the Momentum Line SSDs

Ideal for Write-Moderate, Read-Intensive applications

















ATP Momentum Line SSDs

PCle® Gen4 NVMe M.2 2280 SSD

N601Mw

- PCIe Gen4 x4, NVMe 1.4
- 256 GB to 4 TB capacities
- Extended-Commercial Temp Operable (-20°C to 75°C)
- Power loss protection for data at rest
- AutoRefresh and Auto-Read Calibration elevate runtime data integrity
- End-to-End Data Path Protection
- Host Memory Buffer (HMB) support

PCle® Gen3 NVMe M.2 2280 SSD

N400Mw

- PCle Gen3 x4, NVMe 1.3
- 128 GB to 1 TB capacities
- Extended-Commercial Temp Operable (-20°C to 75°C)
- Power loss protection for data at rest
- AutoRefresh and Auto-Read Calibration elevate runtime data integrity
- End-to-End Data Path Protection
- Host Memory Buffer (HMB) support

SATA III M.2 2280 SSD / 2.5" SSD

A400Mw



- SATA III 6 Gb/s
- 128 GB to 1 TB capacities
- Extended-Commercial Temp Operable (-20°C to 75°C)
- Power loss protection for data at rest
- SSD features built with ATP expertise for comprehensive reliability
- Power-efficient DRAM-less design

5 1	Momentum							
Product Line	N601Mw	N400Mw	A400Mw	A400Mw				
Interface	PCIe G4 x4	PCle G3 x4	SATA III 6 Gb/s	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	-20°C to 75°C							
Power Loss Protection Options	Firmware Based							
Optional SED Features	-							
Capacity	256 GB to 4 TB	128 GB to 1 TB						
	Performance							
Sequential Read (MB/s) up to	7,200	2,600	550	550				
Sequential Write (MB/s) up to	6,500	1,800	500	500 72,000				
Random Reads IOPS up to	1,000,000	240,000	72,000					
Random Writes IOPS up to	1,200,000	300,000	86,000	86,000				
	Endurance and Reliability							
Endurance (TBW)1 up to	6,000 TB	695 TB	765 TB	765 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							

ATP Momentum DRAM Series: DDR4/DDR5

The new Momentum Series 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: 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

Product	DIMM Type	Density	Speed (MT/s, up to)	Operating Temp.	PCB Height	Part Number	ATP TDBI	Wide Temperature
DDR5	Non-ECC UDIMM	8 GB	5600	0°C to 85°C	Low Profile	R58G00UD566CAYC	•	A
		16 GB	5600	0°C to 85°C	Low Profile	R516G0UD568AAYC	•	A
		32 GB	5600	0°C to 85°C	Low Profile	R532G0UD568BAYC	•	A
	Non-ECC SO-DIMM	8 GB	5600	0°C to 85°C	Low Profile	R58G00SD566CAYC	•	A
		16 GB	5600	0°C to 85°C	Low Profile	R516G0SD568AAYC	•	A
		32 GB	5600	0°C to 85°C	Low Profile	R532G0SD568BAYC	•	A
DDR4	Non-ECC UDIMM	8 GB	3200	0°C to 85°C	Low Profile	R48G00UD328AGSC	•	A
		16 GB	3200	0°C to 85°C	Low Profile	R416G0UD328BGSC	•	A
		32 GB	3200	0°C to 85°C	Low Profile	R432G0UD328BCSC	•	A
	Non-ECC SO-DIMM	8 GB	3200	0°C to 85°C	Low Profile	R48G00SD328AGSC	•	A
		16 GB	3200	0°C to 85°C	Low Profile	R416G0SD328EGSC	•	A
		32 GB	3200	0°C to 85°C	Low Profile	R432G0SD3282CSC	•	A

^{▲:} Optional



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