

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

- PCle Gen4 x4, NVMe 1.4
- 1 TB 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

| | 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 | 1 TB 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 |
| | | | | | | R48G00UD328ACSC | | |
| | | 16 GB | 3200 | 0°C to 85°C | Low Profile | R416G0UD328BGSC | • | A |
| | | | | | | R416G0UD328BCSC | | |
| | | 32 GB | 3200 | 0°C to 85°C | Low Profile | R432G0UD328BCSC | • | A |
| | | | | | | R432G0UD328BASC | | |
| | Non-ECC SO-DIMM | 8 GB | 3200 | 0°C to 85°C | Low Profile | R48G00SD328AGSC | • | A |
| | | | | | | R48G00SD328ACSC | | |
| | | 16 CD | 16 GB 3200 | 0°C to 85°C | Low Profile | R416G0SD328EGSC | • | |
| | | 10 GB | | | | R416G0SD3282CSC | | • |
| | | 32 GB | 3200 | 0°C to 85°C | Low Profile | R432G0SD3282CSC | • | |
| | | | | | | R432G0SD3282ASC | | A |

^{▲:} Optional



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