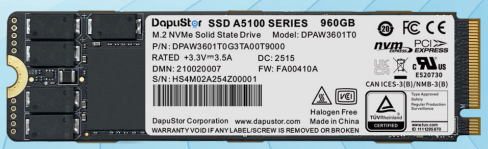
DapuStor

AdgeStor®5 Series

PCIe 4.0

AdgeStor® Industrial NVMe SSD



Built on a PCIe 4.0 controller, the DapuStor® AdgeStor5 M.2 SSDs integrate 3D eTLC NAND Flash and industrial-grade DRAM with in-house firmware to deliver high performance, reliability, and low latency. The product is designed for multiple operating temperature ranges (0°C–70°C and -40°C–85°C), ensuring stable, reliable, and power-efficient performance even under sudden or extreme temperature fluctuations. The A5 Series is ideal for core storage in data centers, automobiles and transportation systems, smart manufacturing, industrial automation, and outdoor monitoring applications.

| Industrial SSD, Enterprise Performance

Equipped with carefully selected 3D eTLC NAND, the drive delivers high endurance and stable write performance. With 1 DWPD and UBER 10^17, it ensures long-term reliability in mission-critical applications.

| Stronger Performance

Sequential read/write speeds of up to 3600/3000 MB/s enable fast data transfers for large files and edge workloads. Designed to withstand extreme temperature fluctuations, it's well-suited for industrial environments such as outdoor deployments, automobiles, rail transit, and automation systems.

3600/3000 MB/s	500K/60K IOPS	70/20 µs
Sequential Read/Write	Random Read/Write	Read/Write Latency

| Enterprise Features & Customization

DapuStor AdgeStor®5 SSD Supports customization of power management, extended temperature ranges, firmware optimization, and smart diagnostics–tailored for diverse industrial and edge use cases.

01 E2E Data Protection

Full-path data verification and ECC safeguard data integrity and reliability during transmission.

02 Steady-State Performance

Delivers consistent performance even under full-drive, sustained write conditions, rather than relying only on peak specs – a key differentiator from consumer and standard industrial SSDs.

03 Industrial Wide-Temperature support

Enterprise-grade steady-state performance, designed for -40°C to 85°C operation, meeting advanced storage demands in AI, edge, and enterprise applications.

04 5-year endurance

Rated for 3,500+ TBW under JESD219 workloads, ensuring up to 5 years of reliable mixed-use endurance.

05 PLP Power Loss Protection

Built-in capacitors and emergency mechanisms reliably secure critical data during sudden power outages.

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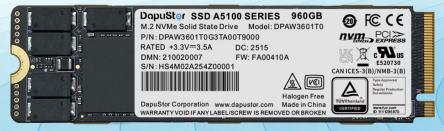

| Product Specifications

PCN (Product Code Name)	A5100		
Capacity (GB)	480	960	1920
Form Factor	M.2 2280		
Interface	PCIe 4.0 x 4, NVMe 1.4a		
Read Bandwidth (128KB) MB/s	1800	3600	3600
Write Bandwidth (128KB) MB/s	800	1500	3000
Random Read (4KB) K IOPS	250	450	500
Random Write (4KB) K IOPS	25	50	50
4K Random Latency (Typ.) R/W µs	70/40	70/20	
4K Sequential Latency (Typ.) R/W µs	9/9		
Typical Power (W)	4	5	5.5
Idle Power (W)	1.5	1.5	1.5
Operating Temperature (Case)	0℃ - 70℃ / -40℃ - 85℃		
Flash Type	3D eTLC NAND Flash		
Endurance	1 DWPD		
MTBF	2 million hours		
UBER	1 sector per 10^17 bits read		
Warranty	5 yrs		

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