AI Matrix



Patriot AI Matrix SSD Series

The Patriot AI Matrix SSD series delivers responsive, sustained NVMe storage engineered to eliminate bottlenecks and empower local AI workflows across every deployment tier. Spanning flagship PCIe Gen5 x4 performance with the MS560, mainstream Gen4 x4 throughput with the MS450, to responsive Gen3 x4 efficiency with the MS350, the lineup drastically reduces checkpoint load times and prevents system stalls across models up to 70B parameters.

Structured across PRO, Mid, and Entry tiers, the series establishes a workload-based foundation tailored to AI application demands. PRO drives accelerate high-performance enterprise RAG (Retrieval-Augmented Generation) and multi-step tool orchestration, Mid tiers support multimodal processing and code generation, and Entry models ensure reliable lightweight execution.

Features

- Slashes multi-gigabyte AI model checkpoint loading times to accelerate local deployment
- Tiered PCIe architecture matched for workloads from edge to up to 70B inference
- Sustains high-bandwidth data flow without thermal throttling during extended sessions
- Standard lightweight M.2 2280 form factor ensures universal platform compatibility
- Enables complete data sovereignty and privacy by eliminating cloud dependency
- Engineered with verified stability backed by a 2-year limited warranty

Specifications

Model	MS560	MS450	MS350
Capacity	4TB / 2TB / 1TB	4TB / 2TB / 1TB	2TB / 1TB / 512GB
Form Factor	PCIe Gen5 x4 M.2 2280	PCIe Gen4 x4 M.2 2280	PCIe Gen3 x4 M.2 2280
Seq. Read/Write (MB/s)	14,000 / 11,000 (4TB) 14,000 / 10,000 (2TB) 14,000 / 7,500 (1TB)	5,000 / 4,500	3,000 / 2,000
Endurance (TBW)	5,400 TB (4TB) 2,700 TB (2TB) 1,300 TB (1TB)	5,400 TB (4TB) 2,700 TB (2TB) 1,300 TB (1TB)	2,700 TB (2TB) 1,300 TB (1TB) 650 TB (512GB)

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Specifications (Cont.)

Model	MS560	MS450	MS350
Operating Temperature	0 – 70˚C		
Operating System	Windows® 7* / 8.0* / 8.1 / 10 / 11 *May require drivers depending on system conditions		
Dimension	3.15" (L) x 0.87" (W) x 0.15" (H) / 8 cm (L) x 2.2 cm (W) x 0.38 cm (H)		
Weight	0.02 lbs / 11 g		
Warranty	2 Years		

Ordering Info







Model	Capacity	Item Number	Part Number	EAN / UPC
MS560	4TB	7SP01985	7SAD0GEOPA-0000	4711378434941
	2TB	7SP01986	7SAD0FEOPA-0000	4711378434958
	1TB	7SP01987	7SAD0EEOPA-0000	4711378434965
MS450	4TB	7SP01988	7SAD0GEPPA-0000	4711378434972
	2TB	7SP01989	7SAD0FEPPA-0000	4711378434989
	1TB	7SP01990	7SAD0EEPPA-0000	4711378434996
MS350	2TB	7SP01991	7SAD0FEQPA-0000	4711378435009
	1TB	7SP01992	7SAD0EEQPA-0000	4711378435016
	512GB	7SP01993	7SAD0DEQPA-0000	4711378435023

Disclaimer
Benchmark results are based on defined testing methodologies and publicly available AI models. Actual performance and compatibility may vary depending on hardware configurations, system environments, and software versions. All results are for reference purposes only.

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