



Silicon Motion Unveils MonTitan™ SSD Reference Design Kit for AI Infrastructure at FMS 2026

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Next-Generation PerformaShape™ Technology Significantly Improves SSD QoS for Agentic AI

TAIPEI, Taiwan & MILPITAS, Calif.--(BUSINESS WIRE)--Aug. 5, 2026-- Silicon Motion Technology Corporation (NasdaqGS: SIMO), a global leader in designing and marketing NAND flash controllers for solid-state storage devices, today unveiled its new MonTitan™ SSD Reference Design Kit (RDK), featuring the company's next-generation patented PerformaShape™ technology. Designed for Agentic AI infrastructure, the platform enables enterprise SSDs to serve as a persistent memory layer supporting KV cache offload and autonomous AI agents, while delivering predictable QoS, sustained performance, and optimized endurance for dynamic, always-on Agentic AI workloads.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20260805804878/en/>



■ Agentic AI Redefines Enterprise Storage Requirements

MonTitan RDK with different FF.

Unlike conventional AI applications, AI agents continuously reason, act, retain

context, and interact with external tools, generating diverse data types and rapidly changing access patterns. As AI data centers support continuous, multi-step inference and increasingly large KV caches, enterprise SSDs must deliver high throughput, consistent latency, predictable QoS, and the endurance required for sustained, write-intensive operations.

■ Next-Generation Architecture for Predictable SSD QoS

The next-generation PerformaShape™ technology introduces an enhanced hardware architecture designed to support Multi-Dimensional Shaping for more precise workload management. Combined with integrated performance monitoring and with NVMe TP4176 as API, it helps enterprise SSDs maintain predictable QoS under complex and rapidly changing workloads of multi-tenant and multi-agent use cases.

"AI agents require storage to evolve into a persistent memory layer that retains context and supports continuous autonomous operations," said Jason Chien, Senior Director of Enterprise Product Marketing at Silicon Motion. "Featuring next-generation PerformaShape™ technology, our new MonTitan™ SSD RDK combines enhanced hardware and software to efficiently manage data flows across multiple agents, reduce resource contention, and accelerate time to market for Agentic AI storage solutions."

PerformaShape™ has been designed into both Silicon Motion's SM8366 PCIe 5.0 and SM8466 PCIe 6.0 enterprise SSD controllers. Built on these platforms, the MonTitan™ SSD RDK provides SSD manufacturers with a scalable foundation for developing storage solutions for AI servers and data centers, helping them shorten development cycles and accelerate time to market for Agentic AI applications.

For more information, please visit www.siliconmotion.com.

About Silicon Motion:

Silicon Motion Technology Corporation (NasdaqGS: SIMO) is the global leader in supplying NAND flash controllers for solid-state storage devices. The company ships more SSD controllers than any other supplier worldwide for servers, PCs, and other edge devices, and is also the leading merchant provider of eMMC and UFS embedded storage controllers used in smartphones, IoT products, and automotive applications.

Silicon Motion also delivers customized, high-performance controller solutions for Enterprise SSDs, Enterprise boot drives, Edge SSDs, Embedded UFS & eMMC, and Ferri solutions for automotive. Its controllers and storage solutions are designed to power the world's most advanced AI Infrastructure, Edge AI, and Physical AI, combining high performance, low power, and proven reliability.

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