

Silicon Motion's SM2264XT-AT Automotive SSD Controller Wins 2024 COMPUTEX Best Choice Award

May 28, 2024

TAIPEI, May 28, 2024 -- Silicon Motion Technology Corporation (NasdaqGS: SIMO) ("Silicon Motion"), a global leader in designing and marketing NAND flash controllers for solid state storage devices, today announced that its SM2264XT-AT PCIe Gen4 automotive SSD controller has received the Category Award at the 2024 COMPUTEX Best Choice Award. SM2264XT-AT supports eight NAND channels with up to 1,600 MT/s per channel, providing high performance with built-in SR-IOV capability that enables up to eight virtual machines to share a single physical PCIe device, allowing for greater flexibility and scalability. It also features AEC-Q100 Grades 2/3, ISO26262 functional safety compliance, and ISO21434 cybersecurity, delivering high reliability and security for high-performance automotive applications.





Superior Performance

The SM2264XT-AT is based on 12nm process technology and equipped with quad-core ARM R88 CPU, supporting four lanes of 16Gb/s PCIe data flow. Additionally, it features eight NAND channels with up to 1,600 MT/s per channel. The advanced architecture ensures superior performance, ultra-high QoS, low power consumption, rigorous data protection and reliability, making it an ideal choice for PCIe Gen4 NVMe Automotive SSDs.

Built-in SR-IOV Capability for Automotive Storage

The SM2264XT-AT comes with built-in SR-IOV capability, supporting up to eight virtual machines (VMs). This feature, along with multiple namespaces, capacity management, shared namespace and reservation features, empowers enhanced software functionality and streamlined remote management. With dedicated virtual functions (VFs) for each VM, multiple VMs can access the SSD with low latency, maximizing the utilization of SSD resources. Moreover, this capability reduces host software complexity and CPU power consumption. The built-in SR-IOV feature makes the SM2264XT-AT an excellent fit for future vehicles that require implementation within a centralized architecture.

Automotive Quality Assurance

To meet the stringent requirements of the automotive industry, the SM2264XT-AT undergoes rigorous testing and adheres to various automotive processes and certifications, including:

- AEC-Q100 compliance
- ISO 26262 functional safety standards (ASIL-B)
- ISO 21434 certification for cybersecurity
- IATF 16949 certification for supplier chain compliance
- ASPICE compliance SW development process
- Automotive Service Packaging (ASP)

"With state-of-the-art PCIe Gen4 technology and innovative hardware features, the SM2264XT-AT sets a new standard and delivers a robust solution for future automotive storage needs," said Nelson Duann, Senior VP of Client & Automotive Storage Business. "As the world's leading supplier of NAND flash controllers, Silicon Motion provides a broad range of high-performance solutions that meet the strictest design requirements for quality, reliability, and safety for automotive applications. We have also engaged in deep technical collaboration with NAND flash makers, automotive manufacturers, Tier 1 suppliers, and OEC suppliers to ensure that PCIe NVMe standards with SR-IOV technology meet the future demands of the connected vehicle ecosystem."

About Silicon Motion

We are the global leader in supplying NAND flash controllers for solid state storage devices. We supply more SSD controllers than any other company in the world for servers, PCs and other client devices and are the leading merchant supplier of eMMC and UFS embedded storage controllers used in smartphones, IoT devices and other applications. We also supply customized high-performance hyperscale data center and specialized industrial and automotive SSD solutions. Our customers include most of the NAND flash vendors, storage device module makers and leading OEMs. For further information on Silicon Motion, visit us at www.siliconmotion.com.

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