

EMPOWERING RETAIL SUCCESS WITH DATA-DRIVEN INSIGHTS

How to accelerate AI and omnichannel analytics for sustainable growth.

Retailers are racing to scale their AI operations to better engage customers, cut operational costs, and increase revenues. But the massive datasets and advanced analytics are no match for aging retail systems. It's time for heavy-duty compute delivered with rack-scale simplicity.

98% of U.S. retailers expect to achieve full AI deployments by 2027.¹

2/3 of consumers say AI makes shopping more convenient.²

71% of retailers anticipate a significant ROI from AI in the next year.³

Supermicro retail AI solutions, powered by 5th Gen AMD EPYC™ processors, are designed to **accelerate AI with proven leadership performance, flexibility, and efficiency** across the most demanding retail environments.



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NEXT-GENERATION RETAIL & SUPPLY CHAIN OPERATIONS

Supermicro servers with 5th Gen AMD EPYC™ processors deliver breakthrough performance for retail AI applications.

AI-powered shopping advisors: Deliver personalized recommendations to improve customer experiences and boost revenue

Retail loss prevention: AI systems can monitor live video feeds and use behavior analytics to help prevent theft

Intelligent supply chains: Predict demand, manage inventory levels, and optimize deliveries to enhance efficiency

Store analytics: Identify shopping trends to enhance merchandising, predict staffing needs, and streamline operations



Supernano servers with AMD EPYC™ CPUs deliver massive compute for in-store and edge AI applications, so retailers can transform customer loyalty, boost efficiency, and drive success.



PERFORMANCE: DISCOVER TRENDS WITH MASSIVE DATASETS

High core counts, large cache, and high memory bandwidth speed AI & data workloads

Efficient data preparation and post-processing tasks for **GPU-accelerated systems**

Complete solutions ship pre-validated, ready for **day one deployment — at rack scale**

'Zen 5' architecture optimizes both in-store technology and backend infrastructure



FLEXIBILITY: SPEED DEPLOYMENT OF ADVANCED AI MODELS

Proven AI building-block architecture streamlines deployment at scale for the largest AI models

Open AI ecosystem with AMD ROCm™ open software and a foundation of heterogeneous portability

Multilayered, built-in security with AMD Infinity Guard to help prevent threats and keep data safe⁴

Unified computing platform with x86 software compatibility for seamless integration



EFFICIENCY: REDUCE COSTS WHILE IMPROVING CUSTOMER EXPERIENCE

Industry-leading air- and liquid-cooled systems improve power efficiency to cut costs and meet sustainability goals

Improved density with multi-node racks, reducing server count and energy demands for lower TCO

Chip-level power intelligence enables AMD EPYC™ CPUs to deliver outstanding power performance

Purpose-built silicon design of the 3rd Gen AMD CDNA combines ultra-efficient 5nm and 6nm fabrication processors



READY TO UNLEASH THE POTENTIAL OF AI-POWERED RETAIL?

Explore how Supermicro retail AI solutions, from the compact 1U edge server to the multi-GPU 2U high-performance platform, can transform your retail operations.

LEARN MORE

For more information:



SOURCES:

¹ <https://www.retailcustomerexperience.com/blogs/future-of-ai-in-retail-aligning-progress-with-public-perception-2/>

² <https://www.businesswire.com/news/home/20250225425683/en/New-Everseen-Report-Retailers-and-Consumers-Weigh-in-on-the-Future-of-Retail-AI>

³ <https://assets.kpmg.com/content/dam/kpmgsites/xx/pdf/2025/03/intelligent-retail-report.pdf.coredownload.inline.pdf>

⁴ AMD Infinity Guard features vary by EPYC Processor generations. Infinity Guard security features on AMD EPYC processors must be enabled by server OEMs and/or cloud service providers to operate. Learn more about Infinity Guard at <https://www.amd.com/en/technologies/infinity-guard>