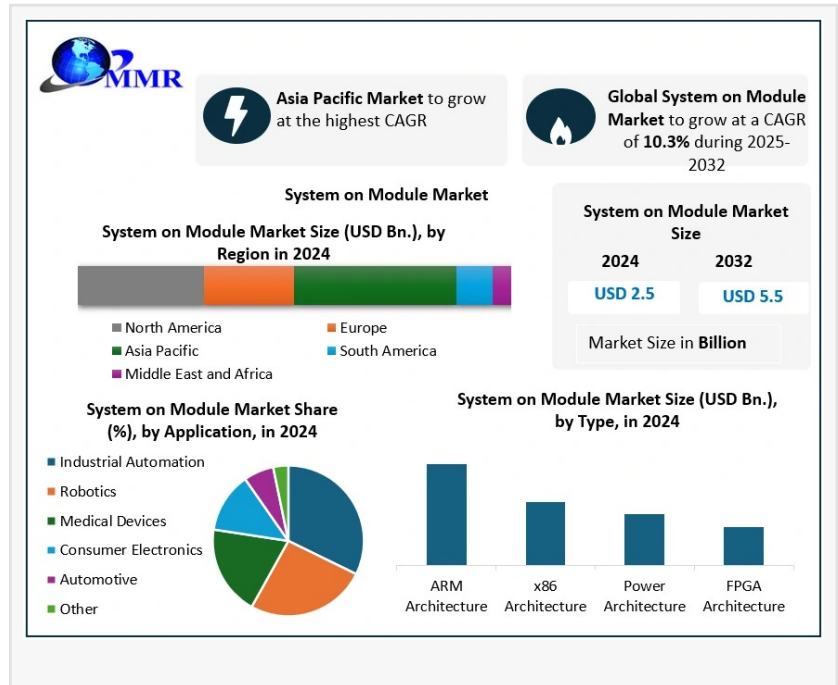


System on Module (SoM) Market to Reach USD 5.5 Billion by 2032, Driven by Demand for Embedded and Computing Solutions

Asia-Pacific is one of the most important markets for the automobile industry, owing to an increase in urban population and spending power.

WILMINGTON, DE, UNITED STATES, September 15, 2025 / EINPresswire.com/ -- The [System on Module \(SoM\) Market](#) size was valued at USD 2.5 billion in 2024, and the total System on Module (SoM) revenue is expected to grow at a CAGR of 10.3% from 2025 to 2032, reaching nearly USD 5.5 billion by 2032.



Pre-Built Power: How System on Modules Are Reshaping Product Innovation

What if the brain of your next product came pre-built, scalable, and ready to deploy? System on Modules (SoMs) are quietly transforming industries by packing powerful processing, connectivity, and efficiency into palm-sized solutions. As demand for real-time AI, edge intelligence, and space-optimized computing explodes, SoMs are becoming the backbone of modern innovation. But how far can this modular shift go, and which industries will it disrupt next?

“

System on Module adoption is surging — modular, scalable solutions are now a competitive edge

”

Dharti Raut

Small Modules, Massive Impact: The SoM Technology

Changing Everything

What if tiny modules could transform entire industries? System on Modules (SoMs) are doing just that, powering smart factories, real-time AI, and edge computing with compact, customizable

platforms that cut complexity and unlock unprecedented speed and intelligence at the edge.

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<https://www.maximizemarketresearch.com/request-sample/63141/>

SoMs at a Crossroads: Can They Overcome Critical Barriers?

Despite their promise, System on Modules face hidden hurdles, complex legacy integration, cost limits for small IoT, power constraints, and rising security risks at the edge. Can these challenges be overcome to unlock SoMs’ full potential?

Global System on Module (SoM) Market Segments Covered	
By Type	ARM Architecture x86 Architecture Power Architecture FPGA Architecture
By Standard	COM Express Qseven SMARC
By Application	Industrial Automation Robotics Medical Devices Consumer Electronics Automotive Other
By Region	North America (United States, Canada and Mexico) Europe (UK, France, Germany, Italy, Spain, Sweden, Austria, Turkey, Russia and Rest of Europe) Asia Pacific (China, India, Japan, South Korea, Australia, ASEAN (Indonesia, Malaysia, Myanmar, Philippines, Singapore, Thailand, Viet Nam etc.) and Rest APAC) Middle East and Africa (South Africa, GCC, Egypt, Nigeria and Rest of ME&A) South America (Brazil, Argentina, Colombia and Rest of South America)

The Next Frontier: SoMs Driving AI and Edge Computing Revolution

As AI and edge computing soar, SoMs are poised to revolutionize smart cameras, autonomous vehicles, and industrial sensors. With tailored AI accelerators and smart manufacturing digitization, the real question is: how far can SoMs push intelligent edge innovation?

SoM Segmentation: The Race to Define Next-Gen Connected Intelligence

The System on Module (SoM) market is evolving with diverse architectures, ARM, x86, FPGA, and Power, offering tailored processing solutions. Standards like COM Express, Qseven, and SMARC enhance interoperability and deployment speed. Spanning applications from industrial automation and robotics to medical, automotive, and consumer electronics, the question remains: which will lead the future of connected intelligence?

Are System on Modules About to Disrupt Every Industry? Discover the Key Trends

Edge AI Revolution: SoMs are rapidly integrating AI/ML capabilities, enabling real-time decision-making at the edge, transforming robotics, surveillance, and industrial automation like never before. How will this shift redefine operational intelligence?

Miniaturization Meets Efficiency: The race for ultra-compact, low-power SoMs is accelerating, targeting space-constrained applications such as portable medical devices and drones. What breakthroughs will emerge from this push for smaller, smarter modules?

Demand for Modular Flexibility: Growing market needs are driving the development of scalable,

modular SoMs that offer customizable processors, memory, and I/O configurations, empowering tailored solutions across industries. Could this be the key to unlocking unprecedented innovation?

What's Next for System on Modules? Key Developments Poised to Disrupt the Market

Switzerland (2024): Toradex dropped the Aquila iMX95 SoM, powered by NXP's cutting-edge i.MX 95 SoC and pre-loaded with Torizon Industrial Linux. Designed for the toughest edge AI tasks, mass production kicks off mid-2025. Could this redefine edge intelligence?

Germany (2025): At Embedded World 2025, congatec stunned the market with the conga TC750 COM Express Compact module, delivering a jaw-dropping 99 TOPS of AI power via Intel Core Ultra processors, paired with an innovative acetone-based heat-pipe cooling. Is this the future of extreme-environment AI?

Australia (2025): At ElectroneX Melbourne, congatec showcased its modular powerhouse: COM HPC Client/Server systems, SMARC modules (conga SMX95), and rugged edge-server solutions, all built to accelerate industrial automation. Could these be the building blocks of tomorrow's smart factories?

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Unveiling Asia Pacific's Lead: The Driving Forces Behind SoM Market Supremacy and Industrial IoT Evolution

Asia Pacific dominates the System on Module (SoM) market with a 45.21% share in 2024, fueled by strong electronics manufacturing and rising demand for IoT, consumer electronics, and smart automotive solutions. Investments like Foxconn's semiconductor and EV initiatives in India, alongside products from Kontron and USI, highlight the region's role in advancing industrial IoT and smart manufacturing, shaping the global SoM future.

System on Module (SoM) Market, Key Players:

North America

Digi International Inc. – United States

AAEON USA (subsidiary of AAEON) – United States

National Instruments Corporation – United States

Europe

Congatec GmbH – Germany

Kontron AG – Germany
Emtrion GmbH – Germany
Phytec Messtechnik GmbH – Germany
Toradex AG – Switzerland
SECO S.p.A. – Italy

Asia-Pacific

Advantech Co., Ltd. – Taiwan
Aaeon Technology Inc. – Taiwan
VIA Technologies Inc. – Taiwan

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