

Recent Market Research on Custom System-On-Chip Application-Specific Integrated Circuits (ASIC): Future Trends

The Business Research Company's Custom System-On-Chip Application-Specific Integrated Circuits(ASIC) Global Market Report Market Size, Trends,Forecast 2026-2035

LONDON, GREATER LONDON, UNITED KINGDOM, September 29, 2026 /EINPresswire.com/ -- The [custom system-on-chip application-specific integrated circuit \(ASIC\) market](#) is witnessing significant momentum, driven by advancements in semiconductor technology and rising demand across various technology sectors. Understanding the current market landscape, growth drivers, and regional dynamics helps provide a comprehensive picture of its future trajectory. Here is an analysis of the market's size, key growth factors, major players, and regional outlook.

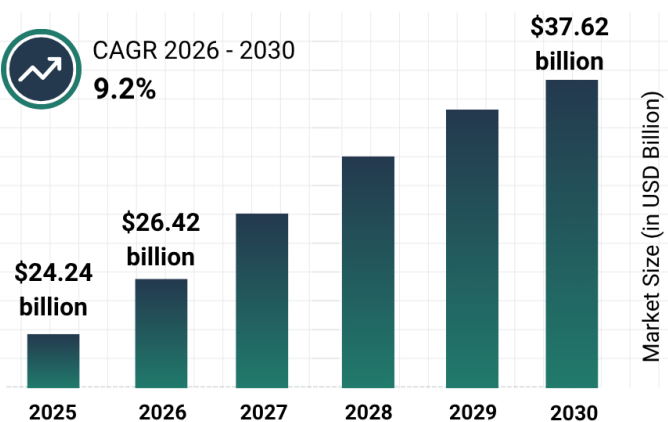
Market Size and Growth Forecasts for the [Custom System-on-Chip Application-Specific Integrated Circuit \(ASIC\) Market](#)

The custom system-on-chip application-specific integrated circuit (ASIC) market has shown strong expansion in recent years. It is projected to grow from \$24.24 billion in 2025 to \$26.42 billion in 2026, reflecting a compound annual growth rate (CAGR) of 9.0%. This upward trend during the historic period can be attributed to rising demand for semiconductor solutions tailored to specific applications, increased adoption of custom chip architectures, a growing need for enhanced processing efficiency, and the widespread use of integrated semiconductor components. Additionally, the emphasis on reducing power consumption in electronic devices

Custom System-On-Chip Application-Specific Integrated Circuit (ASIC) Market Report 2026



CAGR 2026 - 2030
9.2%



Custom System-On-Chip Application-Specific Integrated Circuit (ASIC) Market Share

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has contributed to this market growth.

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https://www.thebusinessresearchcompany.com/sample_request?id=22413219&type=smp&name=Custom%20System-On-Chip%20Application-Specific%20Integrated%20Circuit%20%28ASIC%29%20Market%20Report%202026&utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Sep_PR

Looking ahead, the market is expected to maintain its robust growth, reaching \$37.62 billion by 2030 with an even stronger CAGR of 9.2%. This forecast is supported by increasing demand for AI-optimized custom ASIC solutions, the requirement for high-performance computing architectures, and wider adoption of specialized chips in emerging applications. The market also benefits from the growing need for low-power semiconductor designs and increased investment in advanced semiconductor manufacturing capabilities. Key trends anticipated during this period include more widespread use of application-specific semiconductor architectures, greater focus on energy-efficient and high-performance chip designs, integration of advanced semiconductor intellectual property blocks, development of domain-specific custom chip solutions, and an emphasis on compact, optimized system-on-chip designs.

Understanding Custom System-on-Chip Application-Specific Integrated Circuits (ASICs)

A custom system-on-chip (SoC) application-specific integrated circuit (ASIC) is a semiconductor device that consolidates all essential system components—such as processor cores, memory, and peripherals—onto a single chip designed for a particular application. These chips are fine-tuned to perform dedicated functions, delivering higher performance, reduced power consumption, and smaller size when compared to general-purpose integrated circuits.

View the full custom system-on-chip application-specific integrated circuit (asic) market report:

https://www.thebusinessresearchcompany.com/report/custom-system-on-chip-application-specific-integrated-circuit-asic-market-global-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Sep_PR

How 5G Infrastructure Deployment Fuels Growth in the Custom System-on-Chip Application-Specific Integrated Circuit (ASIC) Market

The accelerating rollout of 5G network infrastructure is a major catalyst driving the expansion of the custom system-on-chip ASIC market. This advanced telecommunications framework includes base stations, antennas, small cells, and other network equipment needed to provide high-speed, low-latency wireless connectivity. The rising deployment of 5G infrastructure is motivated by the growing need for faster data transmission and increased network capacity to support expanding digital connectivity demands.

This widespread implementation of 5G networks boosts demand for custom SoC ASICs because these chips offer the optimized, energy-efficient, and low-latency silicon solutions necessary to

manage large-scale data throughput, edge computing, and complex connectivity workloads. For example, a report published by the UK's Office of Communications (Ofcom) in December 2023 indicated that as of September 2023, the UK had over 18,500 5G deployments across about 81,000 sites, up from nearly 12,000 deployments in 2022. This significant increase highlights how 5G infrastructure growth is directly influencing the custom system-on-chip ASIC market.

Identifying the Largest and Fastest-Growing Regions in the Custom System-on-Chip Application-Specific Integrated Circuit (ASIC) Market

In 2025, Asia-Pacific held the largest share of the custom system-on-chip ASIC market, driven by strong demand from key technology sectors in the region. However, North America is anticipated to be the fastest-growing market during the forecast period. The overall market report encompasses major regions including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, offering a comprehensive overview of the global market landscape.

Our 2026 market reports now offer broader strategic coverage through market attractiveness scoring and analysis, total addressable market (TAM) analysis, company scoring matrix graphics and tables, Excel-based forecasting dashboards, market hotspots infographics, key technologies and future trend analysis, along with updated graphics and tables.

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