

Global ARM System on Module (SoM) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global ARM System on Module (SoM) market size was valued at USD 599.9 million in 2023 and is forecast to a readjusted size of USD 1561.2 million by 2030 with a CAGR of 14.6% during review period.

ARM System on Module (SoM) is an embedded computer system that contains an ARM-based microprocessor, memory, flash storage, and various peripheral interfaces, all integrated onto a single printed circuit board (PCB) module. SoMs are designed to be highly compact, low-power, and provide high-performance computing capabilities. They offer standardized interfaces and packaging, making it easy to integrate into other systems, reducing development costs and time. The customer only needs to develop or integrate the mainboard, power supply, and peripheral devices to create a complete system suitable for various embedded applications.

The key manufacturers of ARM System on Module (SoM) include Advantech, Microchip Technology, Inc., Digi International Inc., CompuLab, Kontron, Avnet Embedded (MSC Technologies), etc. The top six have a combined market share of about 35%.

The Asia-Pacific region, Europe and North America are the main markets of the products, among which the Asia-Pacific region accounts for about 39%, ranking first in the world. The Asia-Pacific market is expected to expand further.

ARM System on Module (SoM) is mainly divided into Qseven standard, SMARC standard, and COMExpress standard. SMARC standard and COMExpress standard both have around 30% of the market.

In terms of application, it is mainly used in industrial automation, automotive&transport, medical, defense&aerospace, communications and other aspects.

Industrial automation accounts for the largest proportion, currently reaching more than 28%, and will continue to increase in the future.

The Global Info Research report includes an overview of the development of the ARM System on Module (SoM) industry chain, the market status of Industrial Automation (Qseven Standard, SMARC Standard), Automotive & Transport (Qseven Standard, SMARC Standard), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of ARM System on Module (SoM).

Regionally, the report analyzes the ARM System on Module (SoM) markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global ARM System on Module (SoM) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the ARM System on Module (SoM) market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the ARM System on Module (SoM) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Qseven Standard, SMARC Standard).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the ARM System on Module (SoM) market.

Regional Analysis: The report involves examining the ARM System on Module (SoM)

market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the ARM System on Module (SoM) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to ARM System on Module (SoM):

Company Analysis: Report covers individual ARM System on Module (SoM) manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards ARM System on Module (SoM). This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial Automation, Automotive & Transport).

Technology Analysis: Report covers specific technologies relevant to ARM System on Module (SoM). It assesses the current state, advancements, and potential future developments in ARM System on Module (SoM) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the ARM System on Module (SoM) market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

ARM System on Module (SoM) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Qseven Standard

SMARC Standard

COMExpress Standard

Others

Market segment by Application

Industrial Automation

Automotive & Transport

Medical

Defense & Aerospace

Communications

Others

Major players covered

Advantech Co. Ltd.

Digi International Inc

Kontron

Avnet Embedded (MSC Technologies)

Congatec GmbH

ADLink

Variscite

Axiomtek

Toradex

Microchip Technology, Inc.

SECO

CompuLab

Mistral

Emcraft Systems

NetBurner

SoMLabs

Microprogram Information

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe ARM System on Module (SoM) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of ARM System on Module (SoM), with price, sales, revenue and global market share of ARM System on Module (SoM) from 2019 to 2024.

Chapter 3, the ARM System on Module (SoM) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the ARM System on Module (SoM) breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and ARM System on Module (SoM) market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of ARM System on Module (SoM).

Chapter 14 and 15, to describe ARM System on Module (SoM) sales channel, distributors, customers, research findings and conclusion.

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