

Global System on Module Market Research Report Forecast to 2030

Market Report | 2023-02-02 | 110 pages | Market Research Future

AVAILABLE LICENSES:

- Single User Price \$4950.00
- Enterprisewide Price \$7250.00

Report description:

System on Module Market Forecast till 2030

Market Overview

The global System on Module Market is estimated to register a significant CAGR by the end of 2030. A System on Module, or SoM, is a pre-made component that combines a processor, memory, power, debugging, and connectivity capabilities. Instead of having connectors, it is meant to be inserted into a carrier board. SoM can be utilized in various fields such as e-readers, deep learning, wearables, automation, industrial HMI, drones, medical imaging and industrial control.

Engineers are encountering difficulties in developing new ways to design products that improve intelligence, connectivity, and performance while reducing costs, power consumption, and product size. In such situations, a System on Module (SoM) is seen as an optimal solution for efficient and targeted product design. In healthcare, the use of SoM can support real-time health diagnosis through the use of Artificial Intelligence (AI) and embedded systems, leading to improved and precise outcomes, which is driving the adoption of advanced embedded systems in medical devices. Additionally, the growing demand for portable and wireless devices such as smart wearable medical garments is expected to drive the growth of the System on Module market.

Segment Overview

The global System on Module market is segmented into different categories such as type, standard, application, and region. According to type, the market is divided into Arm Architecture, X86 Architecture, and Power Architecture. Based on standards, the market is segmented into COM Express, SMARC, QSeven, ETX/XTX, Com-Hpc, and Others. The applications of this market include Test and Measurement, Medical, Industrial Automation, Entertainment, Transportation, and Others.

Regional Analysis

North America is the leading market for System on Module (SoM). This is due to the high adoption of smart home technology in the region, with 69% of households having at least one smart home device. Additionally, the use of fitness tracking devices and the growing production of IoT devices are also fuelling the market growth in North America.

The Asia Pacific region is experiencing rapid growth in the System on Module market due to the abundance of raw materials and a thriving electronics manufacturing industry. The high demand for efficient electronic components, including processors, boards, SoMs, and SoCs from the rapidly expanding consumer electronics sector in the APAC region is creating ample growth opportunities for the market

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Major Players

The forecast period is expected to see significant growth in the global System on Module Market, driven by a surge in demand for wireless and portable devices. Key players in the market include AAEON Technology, Advantech, Avnet, Avalue Technology, Axiomtek, ConnectTech, Cognatec, EMAC, Eurotech, Kontron ST&G, Microchip Technology, National Instruments, Phytex, SECO, TechNexion, Toradex, and VIV Technologies.

COVID 19 Impacts

Manufacturers of devices are facing a decline in demand from various end-use industries. China is a major exporter of smart devices such as smartphones, USB flash drives, digital cameras, and media players, and holds nearly 50% of the export market for software and hardware devices. Therefore, the IT industry is predicted to experience significant disruptions in the upcoming months due to the spread of COVID-19. The outbreak has already resulted in a 12% decrease in smartphone production and a 16% decline in smartwatch production in FY 2020. Sales of laptops, smartphones, and smart speakers have also decreased significantly. While the IT industry may not feel the direct and immediate impact of the novel coronavirus, the decrease in production and supply of these devices could cause sales and financial pressures for key companies in the coming months. This is expected to affect the semiconductor industry, which is a vital part of the IT industry.

To improve monitoring of patients and assist in asset management, tracking, and patient safety, many medical devices must remain constantly connected. These capabilities can be achieved by using the right System on Module (SoM), which can play a vital role in modernizing medical devices. Additionally, device manufacturers rely on SoM boards that can be integrated with infusion ventilators, implantable cardiac defibrillators, pumps, ECGs, bedside terminals, and patient monitors, among other devices. Thus, the use of SoMs in medical devices presents a profitable opportunity for vendors in the global System on Module market during the forecast period.

Table of Contents:

TABLE OF CONTENT

- 1 EXECUTIVE SUMMARY
- 2 MARKET INTRODUCTION
 - 2.1 MARKET DEFINITION
 - 2.2 SCOPE OF THE STUDY
 - 2.3 RESEARCH OBJECTIVE
 - 2.4 MARKET STRUCTURE
 - 2.5 LIST OF ASSUMPTIONS
- 3 RESEARCH METHODOLOGY
- 4 MARKET DYNAMICS
 - 4.1 INTRODUCTION
 - 4.2 DRIVERS
 - 4.2.1 IDEAL FOR QUICK AND FOCUSED PRODUCT DESIGN
 - 4.2.2 SURGE IN DEMAND FOR PORTABLE AND WIRELESS DEVICES
 - 4.2.3 DRIVERS IMPACT ANALYSIS
 - 4.3 RESTRAINT
 - 4.3.1 SYSTEM COMPLEXITIES IN X86 SYSTEM ON MODULE
 - 4.3.2 RESTRAINT IMPACT ANALYSIS
 - 4.4 OPPORTUNITY
 - 4.4.1 ADOPTION OF SYSTEM ON MODULES IN MEDICAL DEVICES
 - 4.5 IMPACT ANALYSIS OF COVID-19
 - 4.5.1 IMPACT ON SEMICONDUCTOR MANUFACTURERS
 - 4.5.2 IMPACT ON COMPONENT MANUFACTURERS

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 4.5.3 IMPACT ON DEVICE MANUFACTURERS
- 4.5.4 IMPACT ON SUPPLY CHAIN DELAYS
- 5 MARKET FACTOR ANALYSIS
 - 5.1 VALUE CHAIN ANALYSIS
 - 5.1.1 SEMICONDUCTOR IP OWNERS
 - 5.1.2 SYSTEM ON MODULE DESIGNERS
 - 5.1.3 ASSEMBLY
 - 5.1.4 END USER
 - 5.2 PORTER'S FIVE FORCES MODEL
 - 5.2.1 THREAT OF NEW ENTRANTS
 - 5.2.2 BARGAINING POWER OF SUPPLIERS
 - 5.2.3 THREAT OF SUBSTITUTES
 - 5.2.4 BARGAINING POWER OF BUYERS
 - 5.2.5 INTENSITY OF RIVALRY
- 6 GLOBAL SYSTEM ON MODULE MARKET, BY TYPE
 - 6.1 OVERVIEW
 - 6.2 ARM ARCHITECTURE
 - 6.3 X86 ARCHITECTURE
 - 6.4 POWER ARCHITECTURE
- 7 GLOBAL SYSTEM ON MODULE MARKET, BY APPLICATION
 - 7.1 OVERVIEW
 - 7.2 INDUSTRIAL AUTOMATION
 - 7.3 MEDICAL
 - 7.4 ENTERTAINMENT
 - 7.5 TRANSPORTATION
 - 7.6 TEST & MEASUREMENT
 - 7.7 OTHERS
- 8 GLOBAL SYSTEM ON MODULE MARKET, BY REGION
 - 8.1 OVERVIEW
 - 8.2 MARKET ESTIMATES AND FORECAST, BY REGION, 2018-2030
 - 8.3 NORTH AMERICA
 - 8.3.1 MARKET ESTIMATES AND FORECAST, BY COUNTRY, 2018-2030
 - 8.3.2 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.3.3 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.3.4 US
 - 8.3.4.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.3.4.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.3.5 CANADA
 - 8.3.5.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.3.5.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.3.6 MEXICO
 - 8.3.6.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.3.6.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.4 EUROPE
 - 8.4.1 MARKET ESTIMATES AND FORECAST, BY COUNTRY, 2018-2030
 - 8.4.2 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.4.3 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.4.4 UK
 - 8.4.4.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.4.4.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
- 8.4.5 GERMANY
 - 8.4.5.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.4.5.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
- 8.4.6 FRANCE
 - 8.4.6.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.4.6.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
- 8.4.7 ITALY
 - 8.4.7.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.4.7.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
- 8.4.8 REST OF EUROPE
 - 8.4.8.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.4.8.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
- 8.5 ASIA-PACIFIC
 - 8.5.1 MARKET ESTIMATES AND FORECAST, BY COUNTRY, 2018-2030
 - 8.5.2 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.5.3 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.5.4 CHINA
 - 8.5.4.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.5.4.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.5.5 JAPAN
 - 8.5.5.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.5.5.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.5.6 INDIA
 - 8.5.6.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.5.6.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.5.7 SOUTH KOREA
 - 8.5.7.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.5.7.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.5.8 REST OF ASIA-PACIFIC
 - 8.5.8.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.5.8.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
- 8.6 REST OF THE WORLD
 - 8.6.1 MARKET ESTIMATES AND FORECAST, BY COUNTRY, 2018-2030
 - 8.6.2 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.6.3 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.6.4 MIDDLE EAST & AFRICA
 - 8.6.4.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.6.4.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
 - 8.6.5 SOUTH AMERICA
 - 8.6.5.1 MARKET ESTIMATES AND FORECAST, BY TYPE, 2018-2030
 - 8.6.5.2 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2018-2030
- 9 COMPETITIVE LANDSCAPE
 - 9.1 OVERVIEW
 - 9.2 COMPETITIVE BENCHMARKING

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 9.3 MARKET SHARE ANALYSIS
- 10 COMPANY PROFILES
 - 10.1 AAEON TECHNOLOGY
 - 10.1.1 COMPANY OVERVIEW
 - 10.1.2 FINANCIAL OVERVIEW
 - 10.1.3 PRODUCTS/SOLUTION/SERVICES OFFERED
 - 10.1.4 KEY DEVELOPMENTS
 - 10.1.5 SWOT ANALYSIS
 - 10.1.6 KEY STRATEGIES
 - 10.2 ADVANTECH CO LTD
 - 10.2.1 COMPANY OVERVIEW
 - 10.2.2 FINANCIAL OVERVIEW
 - 10.2.3 PRODUCTS/SOLUTION/SERVICES OFFERED
 - 10.2.4 KEY DEVELOPMENTS
 - 10.2.5 SWOT ANALYSIS
 - 10.2.6 KEY STRATEGIES
 - 10.3 AVALUE TECHNOLOGY
 - 10.3.1 COMPANY OVERVIEW
 - 10.3.2 FINANCIAL OVERVIEW
 - 10.3.3 PRODUCTS/SOLUTION/SERVICES OFFERED
 - 10.3.4 KEY DEVELOPMENTS
 - 10.3.5 SWOT ANALYSIS
 - 10.3.6 KEY STRATEGIES
 - 10.4 NATIONAL INSTRUMENTS
 - 10.4.1 COMPANY OVERVIEW
 - 10.4.2 FINANCIAL OVERVIEW
 - 10.4.3 PRODUCTS/SERVICES/SOLUTIONS OFFERED
 - 10.4.4 KEY DEVELOPMENTS
 - 10.4.5 SWOT ANALYSIS
 - 10.4.6 KEY STRATEGIES
 - 10.5 MICROCHIP TECHNOLOGY, INC.
 - 10.5.1 COMPANY OVERVIEW
 - 10.5.2 FINANCIAL OVERVIEW
 - 10.5.3 PRODUCTS/SERVICES/SOLUTIONS OFFERED
 - 10.5.4 KEY DEVELOPMENTS
 - 10.5.5 SWOT ANALYSIS
 - 10.5.6 KEY STRATEGIES
 - 10.6 PHYTEC
 - 10.6.1 COMPANY OVERVIEW
 - 10.6.2 FINANCIAL OVERVIEW
 - 10.6.3 PRODUCTS/SOLUTION/SERVICES OFFERED
 - 10.6.4 KEY DEVELOPMENTS
 - 10.6.5 SWOT ANALYSIS
 - 10.6.6 KEY STRATEGIES
 - 10.7 SECO SPA
 - 10.7.1 COMPANY OVERVIEW
 - 10.7.2 FINANCIAL OVERVIEW

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 10.7.3 PRODUCTS/SOLUTION/SERVICES OFFERED
- 10.7.4 KEY DEVELOPMENTS
- 10.7.5 SWOT ANALYSIS
- 10.7.6 KEY STRATEGIES
- 10.8 IWAVE SYSTEM TECHNOLOGIES PVT LTD
- 10.8.1 COMPANY OVERVIEW
- 10.8.2 FINANCIAL OVERVIEW
- 10.8.3 PRODUCTS/SOLUTION/SERVICES OFFERED
- 10.8.4 KEY DEVELOPMENTS
- 10.8.5 SWOT ANALYSIS
- 10.8.6 KEY STRATEGIES
- 10.9 TORADEX AG
- 10.9.1 COMPANY OVERVIEW
- 10.9.2 FINANCIAL OVERVIEW
- 10.9.3 PRODUCTS/SOLUTION/SERVICES OFFERED
- 10.9.4 KEY DEVELOPMENTS
- 10.9.5 SWOT ANALYSIS
- 10.9.6 KEY STRATEGIES
- 10.10 VIA TECHNOLOGIES INC
- 10.10.1 COMPANY OVERVIEW
- 10.10.2 FINANCIAL OVERVIEW
- 10.10.3 PRODUCTS/SOLUTION/SERVICES OFFERED
- 10.10.4 KEY DEVELOPMENTS
- 10.10.5 SWOT ANALYSIS
- 10.10.6 KEY STRATEGIES
- 10.11 ADLINK TECHNOLOGY INC
- 10.11.1 COMPANY OVERVIEW
- 10.11.2 FINANCIAL OVERVIEW
- 10.11.3 PRODUCTS/SOLUTION/SERVICES OFFERED
- 10.11.4 KEY DEVELOPMENTS
- 10.11.5 SWOT ANALYSIS
- 10.11.6 KEY STRATEGIES
- 10.12 CONGATEC AG
- 10.12.1 COMPANY OVERVIEW
- 10.12.2 FINANCIAL OVERVIEW
- 10.12.3 PRODUCTS/SOLUTION/SERVICES OFFERED
- 10.12.4 KEY DEVELOPMENTS
- 10.12.5 SWOT ANALYSIS
- 10.12.6 KEY STRATEGIES
- 10.13 EMAC INC
- 10.13.1 COMPANY OVERVIEW
- 10.13.2 FINANCIAL OVERVIEW
- 10.13.3 PRODUCTS/SOLUTION/SERVICES OFFERED
- 10.13.4 KEY DEVELOPMENTS
- 10.13.5 SWOT ANALYSIS
- 10.13.6 KEY STRATEGIES
- 10.14 EUROTECH INC

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

10.14.1 COMPANY OVERVIEW
10.14.2 FINANCIAL OVERVIEW
10.14.3 PRODUCTS/SOLUTION/SERVICES OFFERED
10.14.4 KEY DEVELOPMENTS
10.14.5 SWOT ANALYSIS
10.14.6 KEY STRATEGIES
10.15 KONTRON S&T AG
10.15.1 COMPANY OVERVIEW
10.15.2 FINANCIAL OVERVIEW
10.15.3 PRODUCTS/SOLUTION/SERVICES OFFERED
10.15.4 KEY DEVELOPMENTS
10.15.5 SWOT ANALYSIS
10.15.6 KEY STRATEGIES

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Global System on Module Market Research Report Forecast to 2030

Market Report | 2023-02-02 | 110 pages | Market Research Future

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

ORDER FORM:

Select license	License	Price
	Single User Price	\$4950.00
	Enterprisewide Price	\$7250.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-16"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com