

# **System on Chip Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Digital Signal, Analog Signal, Mixed Signal), By Application (Consumer Electronics, Healthcare, Telecommunication, Automotive, and Others), By Region, By Competition, 2018-2028**

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## **Abstracts**

Global Surface Mount Technology Market was valued at USD 6.2 Billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 7.4% through 2028. The Global Surface Mount Technology (SMT) Market is experiencing substantial growth, driven by the relentless demand for smaller, more efficient, and high-performance electronic devices across various industries. SMT has revolutionized the electronics manufacturing landscape by offering a more streamlined and automated approach to component placement on printed circuit boards (PCBs). This technology involves mounting electronic components directly onto the surface of PCBs, eliminating the need for through-hole components and enabling compact, lightweight, and energy-efficient devices. Industries such as consumer electronics, telecommunications, automotive, healthcare, and aerospace are increasingly adopting SMT to meet the demands for miniaturization and enhanced functionality in their products. Additionally, the rapid evolution of IoT and 5G technologies is further fueling the SMT market, as they require compact and high-speed electronic components. The market is witnessing innovations in SMT equipment, materials, and processes to ensure higher precision and efficiency. As the electronics industry continues to evolve, the Global SMT Market is expected to play a pivotal role in shaping the future of electronic device manufacturing by enabling the production of smaller, more powerful, and feature-rich products.

## **Key Market Drivers**

## Increased Adoption and Integration

The global Surface Mount Technology (SMT) market is experiencing a surge in adoption and integration across diverse industries, propelling its growth and reshaping the market landscape. Organizations are recognizing the transformative potential of SMT in revolutionizing manufacturing processes and enhancing productivity. SMT technology allows for the efficient assembly of electronic components onto printed circuit boards (PCBs), enabling the production of smaller, lighter, and more powerful electronic devices. This technology has found applications in sectors such as consumer electronics, automotive, telecommunications, healthcare, and aerospace. The escalating adoption of SMT is driven by its capacity to streamline production, reduce manufacturing costs, and enhance product performance. By integrating SMT solutions into their manufacturing processes, organizations can achieve greater precision, faster production cycles, and improved product quality. For instance, in the automotive industry, SMT enables the manufacturing of compact and high-performance electronic components critical for advanced driver assistance systems (ADAS) and electric vehicles (EVs). The increasing demand for SMT solutions is underscored by the desire to improve manufacturing efficiency and product quality, ultimately driving innovation and growth in the global SMT market.

## Advancements in Miniaturization

The global SMT market is witnessing a wave of advancements in miniaturization, which is a key driver of its growth. The electronics industry is undergoing a rapid evolution, with consumers and industries alike seeking smaller, more portable, and high-performance electronic devices. SMT plays a pivotal role in this trend by enabling the assembly of miniature electronic components with remarkable precision. As consumers demand thinner smartphones, lighter laptops, and compact wearables, SMT technology ensures the development of electronics that meet these criteria without compromising on functionality or performance. Furthermore, industries like aerospace and healthcare are leveraging miniaturization to design lighter aircraft components and medical devices with enhanced portability. This drive toward miniaturization is compelling manufacturers to invest in advanced SMT equipment and processes to meet the demand for smaller, yet more powerful electronic products. SMT vendors are at the forefront of this trend, continually innovating to deliver solutions that facilitate the assembly of miniature components with the highest degree of accuracy. In summary, the pursuit of miniaturization is a significant driver propelling the growth of the global SMT market, catering to the evolving demands of consumers and industries for compact yet powerful

electronic devices.

## Rising Demand for IoT and 5G Technologies

The global SMT market is experiencing increased demand driven by the rapid proliferation of Internet of Things (IoT) and 5G technologies. Both IoT and 5G rely on compact, high-speed, and energy-efficient electronic components, making SMT a crucial enabler of these transformative technologies. IoT encompasses a vast ecosystem of interconnected devices, from smart home appliances to industrial sensors, all requiring small, reliable, and cost-effective electronic components. SMT is instrumental in meeting these demands, allowing for the assembly of sensors, microcontrollers, and communication modules in compact and power-efficient form factors. Likewise, the deployment of 5G networks requires the production of advanced network infrastructure and devices capable of handling high data speeds and low latency. SMT technology plays a pivotal role in manufacturing the compact yet powerful components needed for 5G base stations, smartphones, and other 5G-enabled devices. As IoT and 5G technologies continue to gain momentum, the demand for SMT solutions is set to soar, with manufacturers focusing on developing cutting-edge SMT equipment and processes to support the evolving requirements of these transformative technologies.

## Efficiency and Cost Savings

Efficiency and cost savings are key drivers fueling the growth of the global SMT market. Manufacturers across various industries are increasingly adopting SMT technology to streamline their production processes and reduce manufacturing costs. SMT offers several advantages in terms of efficiency, including higher production throughput, reduced labor requirements, and enhanced quality control. By automating the component placement process, SMT minimizes the risk of human error and ensures consistent and precise assembly, resulting in fewer defects and higher product reliability. Additionally, the ability to place components on both sides of a PCB allows for compact and densely populated boards, optimizing the use of available space. This efficiency translates into significant cost savings for manufacturers as it reduces material waste and energy consumption. Moreover, SMT enables just-in-time manufacturing, reducing the need for large inventories and associated holding costs. Manufacturers are increasingly recognizing the long-term benefits of SMT in terms of enhanced production efficiency and cost-effectiveness, which is driving its widespread adoption across industries. As organizations continue to prioritize efficiency and cost savings, the global SMT market is poised for sustained growth, with vendors focusing

on delivering innovative SMT solutions that further enhance manufacturing efficiency and reduce production costs.

### Environmental Sustainability

Environmental sustainability is emerging as a notable driver in the global SMT market. As the electronics industry faces increasing scrutiny regarding its environmental impact, organizations are seeking eco-friendly manufacturing solutions. SMT technology aligns with this sustainability trend by offering several environmentally friendly advantages. The efficiency of SMT processes results in reduced energy consumption, contributing to lower carbon footprints. Additionally, the precise component placement.

### Key Market Challenges

#### Limited Awareness and Understanding of Surface Mount Technology

One of the primary challenges facing the global surface mount technology (SMT) market is the limited awareness and understanding among organizations regarding the potential benefits and applications of SMT. Many businesses may not fully grasp the significance of SMT in electronics manufacturing and assembly processes. This lack of awareness can lead to hesitation in adopting SMT solutions, leaving organizations at a disadvantage in terms of efficiency and competitiveness. Addressing this challenge requires comprehensive educational initiatives to highlight the capabilities and advantages of SMT, showcasing real-world examples and case studies to foster a deeper understanding of its significance.

#### Complexity of Implementation and Integration

The implementation and integration of SMT solutions can pose complex challenges for organizations, particularly those with limited technical expertise or resources. Configuring and deploying SMT equipment effectively, and integrating them with existing manufacturing processes and workflows, can be technically demanding. Compatibility issues may arise during integration, leading to delays and suboptimal performance. To address these challenges, it is crucial to simplify the deployment and management of SMT solutions. User-friendly interfaces and intuitive configuration options should be provided to streamline setup and customization. Additionally, organizations should have access to comprehensive support and guidance, including documentation, tutorials, and technical experts who can assist with integration and troubleshoot any issues. Simplifying these aspects of SMT implementation can lead to

more efficient manufacturing processes and improved productivity.

### Ensuring Quality and Reliability

The global SMT market also faces challenges related to ensuring quality and reliability in the manufacturing process. As SMT technology becomes more prevalent in various industries, including consumer electronics, automotive, and telecommunications, there is a growing need to ensure the quality and reliability of the assembled products. Organizations must navigate evolving industry standards and regulations to address potential quality issues and ensure consistent performance. This challenge requires organizations to stay updated with the latest quality control practices and invest in robust testing and inspection frameworks to detect and prevent defects. Collaboration between industry stakeholders, manufacturers, and quality assurance professionals is essential to establish guidelines and standards that promote the production of high-quality and reliable SMT assemblies.

### Integration with Existing Manufacturing Processes

Integrating SMT solutions seamlessly with existing manufacturing processes can be a significant challenge for organizations. SMT technology often requires changes in production workflows and equipment, which may disrupt established processes and require employees to adapt to new ways of working. Organizations need to carefully plan and execute the integration process, ensuring minimal disruption and providing adequate training and support to employees. Collaboration between manufacturing departments, engineering teams, and end-users is crucial to identify potential integration challenges and develop strategies to overcome them. By effectively integrating SMT technology into existing manufacturing processes, organizations can unlock the full potential of this technology and drive efficiency gains.

### Key Market Trends

#### Increased Awareness and Understanding

The global Surface Mount Technology (SMT) market is witnessing a surge in demand as organizations gain a better understanding of its capabilities and potential applications. SMT, known for its efficient and precise electronic component assembly onto printed circuit boards (PCBs), has gained recognition for its ability to enhance manufacturing processes across various industries. As organizations become more acquainted with the benefits of SMT, there is a growing awareness of its value in

optimizing production and product quality. This has led to increased adoption of SMT solutions in sectors such as consumer electronics, automotive, telecommunications, healthcare, and aerospace. In consumer electronics, SMT enables the production of smaller, lighter, and more powerful devices, aligning with the trend for portable and high-performance gadgets. The automotive industry benefits from SMT by manufacturing compact and high-performance electronic components essential for advanced driver assistance systems (ADAS) and electric vehicles (EVs). Additionally, SMT plays a pivotal role in supporting 5G technology by facilitating the assembly of small, energy-efficient components required for high-speed communication networks. The growing awareness of SMT's potential to enhance manufacturing efficiency and product quality is expected to drive further adoption, with vendors focusing on advanced features and integration with existing workflows to cater to various industries' evolving needs.

### Challenges in Implementation and Integration

The implementation and integration of SMT solutions present challenges for organizations, primarily due to the complexity involved in combining hardware, software, and network infrastructure components. Successful SMT deployment requires meticulous planning, considering factors like compatibility with existing systems, scalability, and user training. Integrating SMT into established workflows and processes may necessitate adjustments to user interfaces and interaction methods, which can be daunting. Adapting to these changes requires effective change management strategies to ensure a seamless transition. Organizations must assess the impact on users and provide comprehensive training and support for the adoption of new interaction methods. This may involve redefining user roles, offering detailed documentation and tutorials, and providing ongoing assistance to address any integration issues. Furthermore, organizations should prioritize user feedback and engagement to continuously improve the user experience and optimize the benefits of SMT. Addressing these challenges and effectively managing the implementation and integration of SMT solutions are essential for organizations to unlock the technology's full potential, resulting in improved productivity, user experiences, and innovation.

### Environmental Considerations

Environmental sustainability is an emerging trend influencing the global SMT market. The electronics industry faces increasing scrutiny regarding its environmental impact, prompting organizations to seek eco-friendly manufacturing solutions. SMT aligns with this trend by offering several environmentally friendly advantages. SMT processes are energy-efficient, contributing to reduced carbon footprints through lower energy

consumption. Additionally, SMT's efficiency reduces material waste, as it optimizes the use of available space on PCBs, further supporting sustainability efforts. Manufacturers are increasingly recognizing the importance of adopting eco-friendly practices, making SMT an attractive choice. As organizations prioritize environmental sustainability, the global SMT market is poised for growth, with vendors expected to develop and promote green SMT solutions to meet the evolving demands of environmentally conscious industries and consumers.

### Continuous Innovation for Miniaturization

The global SMT market is characterized by ongoing innovations focused on miniaturization. The electronics industry is witnessing a rapid transformation, with consumers and industries demanding smaller, more portable, and high-performance electronic devices. SMT plays a crucial role in this trend by enabling the assembly of miniature electronic components with exceptional precision. As the demand for thinner smartphones, lighter laptops, and compact wearables rises, SMT technology ensures that these devices meet the criteria without compromising on functionality or performance. Industries like aerospace and healthcare also leverage miniaturization to design lighter aircraft components and portable medical devices. This drive toward miniaturization compels manufacturers to invest in advanced SMT equipment and processes to meet the demand for smaller, yet more powerful electronic products. SMT vendors are at the forefront of this trend, continuously innovating to deliver solutions that facilitate the assembly of miniature components with the highest degree of accuracy. In summary, the pursuit of miniaturization remains a significant driver propelling the growth of the global SMT market, addressing the evolving demands for compact yet powerful electronic devices.

### Segmental Insights

#### Component Insights

In 2022, the active components segment, which includes transistors and integrated circuits, dominated the Global Surface Mount Technology (SMT) Market and is expected to maintain its dominance during the forecast period. Active components play a crucial role in electronic devices by providing amplification, switching, and control functions. The increasing demand for advanced electronic devices, such as smartphones, tablets, and wearable devices, has driven the growth of the active components segment in the SMT market. Transistors are essential components in electronic circuits, enabling signal amplification and switching operations. They are

widely used in various applications, including telecommunications, automotive electronics, consumer electronics, and industrial automation. The growing adoption of advanced technologies, such as 5G networks, Internet of Things (IoT), and artificial intelligence (AI), has fueled the demand for transistors in these sectors. Integrated circuits (ICs) are complex electronic circuits that integrate multiple components, such as transistors, resistors, and capacitors, onto a single chip. ICs are the building blocks of modern electronic devices and are used in a wide range of applications, including computers, smartphones, automotive electronics, and medical devices. The increasing complexity and miniaturization of electronic devices have driven the demand for ICs in the SMT market.

The dominance of the active components segment can be attributed to the rapid advancements in semiconductor technology, the increasing integration of electronic components, and the growing demand for high-performance electronic devices. The continuous development of smaller, faster, and more power-efficient active components has enabled manufacturers to produce compact and feature-rich electronic devices. Furthermore, the active components segment is expected to maintain its dominance in the SMT market during the forecast period due to the ongoing advancements in semiconductor manufacturing processes, such as the development of advanced materials, packaging techniques, and fabrication technologies. These advancements enable the production of smaller and more efficient active components, meeting the evolving demands of the electronics industry.

### End-User Industry Insights

In 2022, the Consumer Electronics sector emerged as the dominant and most influential end-user industry segment in the Global Surface Mount Technology (SMT) market, and it is poised to maintain its dominance throughout the forecast period. Several factors contribute to the Consumer Electronics sector's dominant position. Firstly, the ever-growing demand for consumer electronics, including smartphones, tablets, televisions, wearables, and home appliances, continues to surge worldwide. As consumers seek smaller, lighter, and more feature-rich devices, SMT technology plays a pivotal role in the miniaturization, assembly, and functionality of these products. Secondly, rapid technological advancements and frequent product launches in the consumer electronics industry necessitate agile manufacturing processes, where SMT excels by enabling quick and efficient component placement on electronic boards. Thirdly, the trend toward smart and connected devices, IoT (Internet of Things) applications, and the ongoing digital transformation drive the need for SMT solutions that can handle complex, high-density, and multifunctional circuit boards. Lastly, Asia-Pacific, a hub for consumer



electronics manufacturing, continues to be a major contributor to the dominance of this segment. With the region's large-scale electronics production and demand, it remains a key market for SMT equipment and services. Given these dynamics and the continued evolution of consumer electronics, this sector is poised to sustain its leadership position in the global SMT market, making it a focal point for technology providers and industry stakeholders aiming to capitalize on the sector's continued expansion and innovation.

## Regional Insights

In 2022, the Asia-Pacific region emerged as the dominant force in the Global Surface Mount Technology (SMT) market, and it is anticipated to maintain its supremacy throughout the forecast period. Asia-Pacific's dominance can be attributed to several key factors. Firstly, the region is home to some of the world's largest electronics manufacturing hubs, including China, Japan, South Korea, and Taiwan. These countries have established themselves as global leaders in electronics production, and as a result, they are significant consumers of SMT equipment and services. Secondly, the increasing demand for consumer electronics, such as smartphones, laptops, and other gadgets, has fueled the growth of the SMT market in Asia-Pacific. The region's burgeoning middle class and urbanization trends are driving the need for advanced electronic devices, which, in turn, boosts the demand for SMT solutions for efficient and precise assembly. Thirdly, the presence of leading SMT equipment manufacturers and suppliers in Asia-Pacific enhances the availability and accessibility of cutting-edge technology and equipment, further propelling the market's growth. Additionally, Asia-Pacific's robust industrial infrastructure, skilled workforce, and government initiatives to promote manufacturing and innovation contribute to its dominance in the SMT market. Given these factors and the region's continued economic growth, Asia-Pacific is well-positioned to maintain its dominant share in the global SMT market, making it a focal point for both SMT technology providers and industry stakeholders looking to capitalize on the region's burgeoning electronics manufacturing sector.

## Key Market Players

Fuji Corporation

Yamaha Motor Co. Ltd

Mycronic AB

ASM Assembly Systems GmbH & Co. KG

Panasonic Corporation

Nordson Corporation

Juki Corporation

Hanwha Group

Zhejiang Neoden Technology Co. Ltd

Electronic Manufacturing Services Group Inc.

Kasdon Electronics Limited

Report Scope:

In this report, the Global Surface Mount Technology Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Surface Mount Technology Market, By Component:

Passive Components (Resistors, Capacitors)

Active Components (Transistors, Integrated Circuits)

Surface Mount Technology Market, By End-User Industry:

Consumer Electronics

Automotive

Industrial Electronics

Aerospace and Defense

Healthcare

Others

Surface Mount Technology Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Belgium

Asia-Pacific

China

India

Japan

Australia

South Korea

Indonesia

Vietnam

South America

Brazil

Argentina

Colombia

Chile

Peru

Middle East & Africa

South Africa

Saudi Arabia

UAE

Turkey

Israel

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Global Surface Mount Technology Market.

## Available Customizations:

Global Surface Mount Technology market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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  - 15.3.4. Key Personnel/Key Contact Person
  - 15.3.5. Key Product/Services Offered
- 15.4. Taiwan Semiconductor Manufacturing Company Limited (TSMC)
  - 15.4.1. Business Overview
  - 15.4.2. Key Revenue and Financials
  - 15.4.3. Recent Developments
  - 15.4.4. Key Personnel/Key Contact Person
  - 15.4.5. Key Product/Services Offered
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  - 15.5.5. Key Product/Services Offered
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  - 15.6.5. Key Product/Services Offered
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  - 15.7.1. Business Overview
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  - 15.7.3. Recent Developments
  - 15.7.4. Key Personnel/Key Contact Person
  - 15.7.5. Key Product/Services Offered
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  - 15.8.1. Business Overview
  - 15.8.2. Key Revenue and Financials
  - 15.8.3. Recent Developments
  - 15.8.4. Key Personnel/Key Contact Person

15.8.5. Key Product/Services Offered

15.9. Apple Inc.

15.9.1. Business Overview

15.9.2. Key Revenue and Financials

15.9.3. Recent Developments

15.9.4. Key Personnel/Key Contact Person

15.9.5. Key Product/Services Offered

15.10. Texas Instruments Incorporated

15.10.1. Business Overview

15.10.2. Key Revenue and Financials

15.10.3. Recent Developments

15.10.4. Key Personnel/Key Contact Person

15.10.5. Key Product/Services Offered

15.11. NXP Semiconductors N.V.

15.11.1. Business Overview

15.11.2. Key Revenue and Financials

15.11.3. Recent Developments

15.11.4. Key Personnel/Key Contact Person

15.11.5. Key Product/Services Offered

15.12. STMicroelectronics N.V.

15.12.1. Business Overview

15.12.2. Key Revenue and Financials

15.12.3. Recent Developments

15.12.4. Key Personnel/Key Contact Person

15.12.5. Key Product/Services Offered

15.13. Renesas Electronics Corporation

15.13.1. Business Overview

15.13.2. Key Revenue and Financials

15.13.3. Recent Developments

15.13.4. Key Personnel/Key Contact Person

15.13.5. Key Product/Services Offered

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