

South Korea Semiconductor Market Report by Component (Memory Devices, Logic Devices, Analog IC, MPU, Discrete Power Devices, MCU, Sensors, and Others), Materials Used (Silicon Carbide, Gallium Manganese Arsenide, Copper Indium Gallium Selenide, Molybdenum Disulfide, and Others), End User (Automotive, Industrial, Data Centre, Telecommunication, Consumer Electronics, Aerospace and Defense, Healthcare, and Others), and Region 2026-2034

<https://marketpublishers.com/r/S04869A57867EN.html>

Date: July 2026

Pages: 118

Price: US\$ 2,999.00 (Single User License)

ID: S04869A57867EN

Abstracts

South Korea semiconductor market size reached USD 14,065.0 Million in 2025. Looking forward, IMARC Group expects the market to reach USD 23,809.0 Million by 2034, exhibiting a growth rate (CAGR) of 5.84% during 2026-2034. The escalating demand for electronics and connectivity in consumer and industrial sectors, along with the growing usage of wearable devices, is primarily driving the market growth across the country.

Semiconductors are substances characterized by electrical conductivity levels falling between conductors and insulators. They play a crucial role in facilitating the functioning of transistors, diodes, and integrated circuits, serving as the fundamental components in computers, smartphones, and a myriad of other devices. This technology enables the downsizing of electronic elements, resulting in more compact and portable devices with enhanced computing capabilities. In power electronics, semiconductors are pivotal for converting and managing electrical energy, thereby reducing energy loss. Additionally, their application extends to optoelectronic devices such as photodetectors, laser diodes,

and optical sensors, finding use in telecommunications and medical devices. The versatility of semiconductors underscores their integral role in powering and advancing various technological domains.

SOUTH KOREA SEMICONDUCTOR MARKET TRENDS:

South Korea's semiconductor market thrives as a technological powerhouse, driven by a synergy of innovation, robust manufacturing capabilities, and the escalating demand. Additionally, the country hosts major semiconductor giants, contributing significantly to the supply chain. Besides this, technological advancements, particularly in the fields of memory chips and processors, bolster South Korea's position as a key player in the semiconductor industry. Moreover, the rise of 5G technology and the Internet of Things (IoT) fuels the demand for advanced semiconductor solutions, influencing market trends. Apart from this, South Korea's commitment to research and development fosters the creation of cutting-edge semiconductor technologies, ensuring a competitive edge in the regional market. Furthermore, government initiatives and collaborations between industry and academia further stimulate innovation. As South Korea continues to navigate the evolving landscape of technology, the semiconductor market remains a pivotal force, shaping the future of electronics and influencing technological progress. The growing utilization of sensors, radar systems, cameras, and processing units in autonomous vehicles for navigation and quick decision-making is contributing to a positive market outlook in Japan. Additionally, the increasing desire for in-vehicle connectivity and entertainment systems is expected to drive the expansion of the market in the coming years.

SOUTH KOREA SEMICONDUCTOR MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country level for 2026-2034. Our report has categorized the market based on components, material used, and end user.

Components Insights:

Memory Devices

Logic Devices

Analog IC

MPU

Discrete Power Devices

MCU

Sensors

Others

The report has provided a detailed breakup and analysis of the market based on the components. This includes memory devices, logic devices, analog IC, MPU, discrete power devices, MCU, sensors, and others.

Material Used Insights:

Silicon Carbide

Gallium Manganese Arsenide

Copper Indium Gallium Selenide

Molybdenum Disulfide

Others

A detailed breakup and analysis of the market based on the material used have also been provided in the report. This includes silicon carbide, gallium manganese arsenide, copper indium gallium selenide, molybdenum disulfide, and others.

End User Insights:

Automotive

Industrial

Data Centre

Telecommunication

Consumer Electronics

Aerospace and Defense

Healthcare

Others

The report has provided a detailed breakup and analysis of the market based on the end user. This includes automotive, industrial, data centre, telecommunication, consumer electronics, aerospace and defense, healthcare, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and Others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape in the market. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major

companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea semiconductor market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the South Korea semiconductor market?

What is the breakup of the South Korea semiconductor market on the basis of components?

What is the breakup of the South Korea semiconductor market on the basis of material used?

What is the breakup of the South Korea semiconductor market on the basis of end user?

What are the various stages in the value chain of the South Korea semiconductor market?

What are the key driving factors and challenges in the South Korea semiconductor?

What is the structure of the South Korea semiconductor market and who are the key players?

What is the degree of competition in the South Korea semiconductor market?

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