

# Global SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module market size was valued at USD 540.9 million in 2023 and is forecast to a readjusted size of USD 2731.9 million by 2030 with a CAGR of 26.0% during review period.

Silicon carbide MOSFET has the characteristics of low on-off resistance and small switch loss, which can reduce device loss and improve system efficiency. It is more suitable for high frequency circuit.

It is widely used in new energy vehicle motor controller, on-board power supply, solar inverter, charging pile, UPS, PFC power supply and other fields.

This report investigates the market for SiC MOSFET chips and devices and SiC MOSFET modules.

From a global perspective, China is the largest production region, and the main production enterprises are also concentrated in this region, such as Infineon Technologies, ON Semiconductor, STMicroelectronics etc. The total output value of China in 2019 is 222.31 million USD, accounting for 62.14% of the world, followed by Japan. The main manufacturers in this area include ROHM and Mitsubishi Electric, etc.

In the report, there are two mainly types of SiC MOSFET Chips/Devices and Module, including SiC MOSFET Chips/Devices and SiC MOSFET Module. And SiC MOSFET Chips/Devices is the main type for SiC MOSFET Chips/Devices and Module

The Global Info Research report includes an overview of the development of the SiC MOSFET Chips (Devices) and Module industry chain, the market status of Car (SiC MOSFET Chip and Device, Sic MOSFET Module), Industrial (SiC MOSFET Chip and Device, Sic MOSFET Module), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of SiC MOSFET Chips (Devices) and Module.

Regionally, the report analyzes the SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module 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., Sic MOSFET Chip and Device, Sic MOSFET Module).

**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 SiC MOSFET Chips (Devices) and Module market.

**Regional Analysis:** The report involves examining the SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module market.

This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to SiC MOSFET Chips (Devices) and Module:

**Company Analysis:** Report covers individual SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Car, Industrial).

**Technology Analysis:** Report covers specific technologies relevant to SiC MOSFET Chips (Devices) and Module. It assesses the current state, advancements, and potential future developments in SiC MOSFET Chips (Devices) and Module areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the SiC MOSFET Chips (Devices) and Module 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

SiC MOSFET Chips (Devices) and Module 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

### Sic MOSFET Chip and Device

## Sic MOSFET Module

### Market segment by Application

Car

Industrial

Photovoltaic (pv)

Other

### Major players covered

Wolfspeed

Infineon Technologies

STMicroelectronics

ROHM

Semiconductor Components Industries, LLC

Littelfuse

Microchip

Mitsubishi Electric

GeneSiC Semiconductor Inc.

Shenzhen BASiC Semiconductor LTD

### 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 SiC MOSFET Chips (Devices) and Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC MOSFET Chips (Devices) and Module, with price, sales, revenue and global market share of SiC MOSFET Chips (Devices) and Module from 2019 to 2024.

Chapter 3, the SiC MOSFET Chips (Devices) and Module competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module 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 SiC MOSFET Chips (Devices) and Module.

Chapter 14 and 15, to describe SiC MOSFET Chips (Devices) and Module sales channel, distributors, customers, research findings and conclusion.

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