

Global SiC and GaN Power Semiconductor Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global SiC and GaN Power Semiconductor market size was valued at US\$ 860.9 million in 2023. With growing demand in downstream market, the SiC and GaN Power Semiconductor is forecast to a readjusted size of US\$ 2634.2 million by 2030 with a CAGR of 17.3% during review period.

The research report highlights the growth potential of the global SiC and GaN Power Semiconductor market. SiC and GaN Power Semiconductor are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of SiC and GaN Power Semiconductor. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the SiC and GaN Power Semiconductor market.

Silicon carbide (SiC) and gallium nitride (GaN) are two leading-edge semiconductor materials with key benefits including higher voltage operation, wider temperature ranges and increased switching frequencies when compared to existing silicon (Si) technology. The solid benefits that SiC and GaN deliver include significant efficiency gains through miniaturization advancements, decreased cooling requirements and lower overall system costs by as much as 10-20% over traditional Si materials. A power semiconductor device is a semiconductor device used as a switch or rectifier in power electronics (for example in a switch-mode power supply). Such a device is also called a power device or, when used in an integrated circuit, a power IC.

According to our Semiconductor Research Center, in 2022, the global SiC wafer was valued at US\$ 750 million, will grow rapidly in next six years, driven by the strong demand from electric vehicle (EV). Currently the 6 inch SiC substrates are dominating this market, and in next six years, more players will put into production the 8 inch SiC wafers. Currently the key players of SiC are mainly located headquartered United States, Europe, Japan and China, especially in China, more companies are entering the SiC market. It is predicted that, Chinese companies will play key roles in the SiC market in next ten years.

Key Features:

The report on SiC and GaN Power Semiconductor market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the SiC and GaN Power Semiconductor market. It may include historical data, market segmentation by Type (e.g., SiC, GaN), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the SiC and GaN Power Semiconductor market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the SiC and GaN Power Semiconductor market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the SiC and GaN Power Semiconductor industry. This include advancements in SiC and GaN Power Semiconductor technology, SiC and GaN Power Semiconductor new entrants, SiC and GaN Power Semiconductor new investment, and other innovations that are shaping the future of SiC and GaN Power Semiconductor.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the SiC and GaN Power Semiconductor

market. It includes factors influencing customer ' purchasing decisions, preferences for SiC and GaN Power Semiconductor product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the SiC and GaN Power Semiconductor market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting SiC and GaN Power Semiconductor market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the SiC and GaN Power Semiconductor market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the SiC and GaN Power Semiconductor industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the SiC and GaN Power Semiconductor market.

Market Segmentation:

SiC and GaN Power Semiconductor 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.

Segmentation by type

SiC

GaN

Segmentation by application

IT & Telecom

Aerospace & Defense

Energy & Power

Electronics

Automotive

Healthcare

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Infineon

CREE (Wolfspeed)

Roma Semiconductor Group

STMicroelectronics

ON Semiconductor

Mitsubishi Electric

Fuji Electric

Littelfuse

Global Power Technology Co., Ltd.

Shenzhen Basic Semiconductor Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global SiC and GaN Power Semiconductor market?

What factors are driving SiC and GaN Power Semiconductor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do SiC and GaN Power Semiconductor market opportunities vary by end market size?

How does SiC and GaN Power Semiconductor break out type, application?

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