

# Global GaN and SiC Power Device Market Growth (Status and Outlook) 2024-2030

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## Abstracts

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

The research report highlights the growth potential of the global GaN and SiC Power Device market. GaN and SiC Power Device 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 GaN and SiC Power Device. 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 GaN and SiC Power Device market.

This report focuses on the GaN Power Semiconductors and SiC Power Semiconductors.

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 GaN and SiC Power Device 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 GaN and SiC Power Device market. It may include historical data, market segmentation by Type (e.g., GaN Power Semiconductors, SiC Power Semiconductors), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the GaN and SiC Power Device 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 GaN and SiC Power Device 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 GaN and SiC Power Device industry. This include advancements in GaN and SiC Power Device technology, GaN and SiC Power Device new entrants, GaN and SiC Power Device new investment, and other innovations that are shaping the future of GaN and SiC Power Device.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the GaN and SiC Power Device market. It includes factors influencing customer ' purchasing decisions, preferences for GaN and SiC Power Device product.

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

**Environmental Impact and Sustainability:** The research report assesses the environmental impact and sustainability aspects of the GaN and SiC Power Device market.

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

**Recommendations and Opportunities:** The report concludes 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 GaN and SiC Power Device market.

**Market Segmentation:**

GaN and SiC Power Device 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 value.

**Segmentation by type**

GaN Power Semiconductors

SiC Power Semiconductors

**Segmentation by application**

Consumer Electronics

New Energy and Photovoltaic

Rail and Transportation

Industrial Motors

UPS Power Supply

New Energy Vehicles

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)

ROHM

ST

ON Semiconductor

Mitsubishi Electric

Fuji Electric

Littelfuse

Global Power Technology

BASiC Semiconductor



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