

Global Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors Market 2024 by Company, Regions, Type and Application, Forecast to 2030

https://marketpublishers.com/r/G822028FC9D6EN.html

Date: January 2024

Pages: 108

Price: US\$ 3,480.00 (Single User License)

ID: G822028FC9D6EN

Abstracts

According to our (Global Info Research) latest study, the global Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors market size was valued at USD 1045.8 million in 2023 and is forecast to a readjusted size of USD 8102 million by 2030 with a CAGR of 34.0% during review period.

The power semiconductor is the core of electronic device electrical energy conversion and circuit control. In essence, it uses the unidirectional conductivity of the semiconductor to realize the function of power switch and power conversion. Whether it is hydropower, nuclear power, thermal power or wind power, or even the chemical energy provided by various batteries, most of them cannot be directly used. More than 75% of the electrical energy applications require power conversion by power semiconductor devices before they can be used by equipment.

The major global manufacturers of gallium nitride and silicon carbide power semiconductors include Infineon, CREE (Wolfspeed), Roma Electronics, STMicroelectronics, ON Semiconductor, etc. Gallium nitride and silicon carbide power semiconductor manufacturers are mainly in Europe, America and Japan. Chinese manufacturers started late. Most domestic companies are in the early stage of research and development. The technology is relatively backward and the industry volume is small. There is a big gap with European, American and Japanese manufacturers.

The Global Info Research report includes an overview of the development of the Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors industry chain, the market status of Consumer Electronics (Silicon Carbide Power Semiconductor, Gallium Nitride Power Semiconductor), New Energy Grid Connection (Silicon Carbide



Power Semiconductor, Gallium Nitride Power Semiconductor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors.

Regionally, the report analyzes the Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors 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 Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors 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 Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors 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 revenue generated, and market share of different by Type (e.g., Silicon Carbide Power Semiconductor, Gallium Nitride Power Semiconductor).

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 Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors market.

Regional Analysis: The report involves examining the Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors 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 Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors:

Company Analysis: Report covers individual Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors players, 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 Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, New Energy Grid Connection).

Technology Analysis: Report covers specific technologies relevant to Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors. It assesses the current state, advancements, and potential future developments in Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors 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

Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors 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.



Market segment by Type Silicon Carbide Power Semiconductor Gallium Nitride Power Semiconductor Market segment by Application **Consumer Electronics** New Energy Grid Connection Rail **Industrial Motor Ups Power Supply** New Energy Vehicles Other Market segment by players, this report covers Infineon CREE (Wolfspeed) Roma Semiconductor Group **STMicroelectronics** ON Semiconductor Mitsubishi Electric

Global Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors Market 2024 by Company, Regions, T...

Fuji Electric



Littelfuse

Tyco Tianrun Semiconductor Technology (Beijing) Co., Ltd.

Shenzhen Basic Semiconductor Co., Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors, with revenue, gross margin and global market share of Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors from 2019 to 2024.

Chapter 3, the Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.



Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024.and Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors.

Chapter 13, to describe Gallium Nitride (GaN) and Silicon Carbide (SiC) Power Semiconductors research findings and conclusion.



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