

Global SiC & GaN Power Devices Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G0C1EBF0E6EEN.html>

Date: January 2024

Pages: 117

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

ID: G0C1EBF0E6EEN

Abstracts

According to our (Global Info Research) latest study, the global SiC & GaN Power Devices market size was valued at USD 1073.1 million in 2023 and is forecast to a readjusted size of USD 7143.5 million by 2030 with a CAGR of 31.1% during review period.

Wide-bandgap semiconductors (WBG or WBGS) are semiconductor materials which have a relatively large band gap compared to typical semiconductors. Silicon Carbide (SiC) and gallium nitride (GaN) Power Devices are the mainly used Wide-bandgap semiconductors materials.

Global SiC & GaN Power Devices main players are Infineon, Rohm, Mitsubishi, STMicro, Inc, Thales cryogenics, AIM, etc. Global top four manufacturers hold a share over 80%. Europe is the largest market, with a share nearly 35%.

The Global Info Research report includes an overview of the development of the SiC & GaN Power Devices industry chain, the market status of Consumer Electronics (GaN, SiC), Automotive & Transportation (GaN, SiC), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of SiC & GaN Power Devices.

Regionally, the report analyzes the SiC & GaN Power Devices 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 & GaN Power Devices market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the SiC & GaN Power Devices 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 & GaN Power Devices 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., GaN, SiC).

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 & GaN Power Devices market.

Regional Analysis: The report involves examining the SiC & GaN Power Devices 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 & GaN Power Devices 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 & GaN Power Devices:

Company Analysis: Report covers individual SiC & GaN Power Devices 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 & GaN Power Devices This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer

Electronics, Automotive & Transportation).

Technology Analysis: Report covers specific technologies relevant to SiC & GaN Power Devices. It assesses the current state, advancements, and potential future developments in SiC & GaN Power Devices areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the SiC & GaN Power Devices 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 & GaN Power Devices 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

GaN

SiC

Market segment by Application

Consumer Electronics

Automotive & Transportation

Industrial Use

Others

Major players covered

Infineon

Rohm

Mitsubishi

STMicro

Fuji

Toshiba

Microchip Technology

United Silicon Carbide Inc.

GeneSic

Efficient Power Conversion (EPC)

GaN Systems

VisIC Technologies 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 & GaN Power Devices product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of SiC & GaN Power Devices, with price, sales, revenue and global market share of SiC & GaN Power Devices from 2019 to 2024.

Chapter 3, the SiC & GaN Power Devices competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the SiC & GaN Power Devices 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 & GaN Power Devices 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 & GaN Power Devices.

Chapter 14 and 15, to describe SiC & GaN Power Devices sales channel, distributors, customers, research findings and conclusion.

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