

Global SiC & GaN Power Devices Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global SiC & GaN Power Devices market size was valued at US\$ 1876 million in 2024 and is forecast to a readjusted size of USD 12670 million by 2031 with a CAGR of 31.7% 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%.

This report is a detailed and comprehensive analysis for global SiC & GaN Power Devices market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global SiC & GaN Power Devices market size and forecasts, in consumption value (\$

Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global SiC & GaN Power Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global SiC & GaN Power Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2020-2031

Global SiC & GaN Power Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for SiC & GaN Power Devices

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global SiC & GaN Power Devices market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon, Rohm, Mitsubishi, STMicro, Fuji, Toshiba, Microchip Technology, United Silicon Carbide Inc., GeneSic, Efficient Power Conversion (EPC), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

SiC & GaN Power Devices market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This

analysis can help you expand your business by targeting qualified niche markets.

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 quantity, revenue, and global market share of SiC & GaN Power Devices from 2020 to 2025.

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 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market

share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025. and SiC & GaN Power Devices market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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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