

Global GaN and SiC Power Semiconductor Market Growth 2025-2031

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Abstracts

The global GaN and SiC Power Semiconductor market size is predicted to grow from US\$ 4669 million in 2025 to US\$ 16360 million in 2031; it is expected to grow at a CAGR of 23.2% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

This report studies the GaN Power Devices and SiC Power Devices.

In terms of market size, currently, GaN power devices are about one-tenth of SiC power devices.

Gallium nitride (GaN) is used as the wide band gap material for next generation power semiconductors and high frequency devices.

SiC (silicon carbide) is a compound semiconductor composed of silicon and carbide. SiC provides a number of advantages over silicon, including 10x the breakdown electric field strength, 3x the band gap, and enabling a wider range of p- and n-type control required for device construction.

Silicon Carbide (SiC) devices are widely used in automotive, EV charging, industrial motor/drive, PV, energy storage, wind power, UPS, data center & server and rail transport, etc.

In automotive, SiC power devices are mainly used in automotive main inverter, on-

board chargers (OBC) and DC/DC converter. and the SiC power devices market was dominated by STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor.

SiC Power Devices are mainly used in Automotive Main Inverter, On-Board Chargers and DC/DC Converter. and the SiC power devices market was dominated by STMicroelectronics, Infineon, Wolfspeed, Rohm, Onsemi, BYD Semiconductor.

GaN power devices have grown rapidly in recent years, and a large number of companies have gradually entered the industry. GaN power devices are currently mainly used in consumer electronics, such as mobile phone fast charging, adapters, etc. In the automotive, the entry point of GaN power devices is the on-board charger (OBC). Currently, the GaN power devices are dominated by Innoscience, Infineon (GaN Systems), Power Integrations, Inc., Navitas Semiconductor, Efficient Power Conversion Corporation (EPC), and Renesas Electronics (Transphorm), among which Innoscience is the world's largest GaN power device manufacturer.

LP Information, Inc. (LPI) ' newest research report, the “GaN and SiC Power Semiconductor Industry Forecast” looks at past sales and reviews total world GaN and SiC Power Semiconductor sales in 2024, providing a comprehensive analysis by region and market sector of projected GaN and SiC Power Semiconductor sales for 2025 through 2031. With GaN and SiC Power Semiconductor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaN and SiC Power Semiconductor industry.

This Insight Report provides a comprehensive analysis of the global GaN and SiC Power Semiconductor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on GaN and SiC Power Semiconductor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GaN and SiC Power Semiconductor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN and SiC Power Semiconductor and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global GaN and SiC Power Semiconductor.

This report presents a comprehensive overview, market shares, and growth opportunities of GaN and SiC Power Semiconductor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

GaN Power Devices

SiC Power Devices

Segmentation by Application:

Automotive & Mobility

EV Charging

Consumer Electronics

Industrial Motor/Drive

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Rail Transport

Defense & Aerospace

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 analysing the company's coverage, product portfolio, its market penetration.

STMicroelectronics

Infineon (GaN Systems)

Wolfspeed

Rohm

onsemi

Sumitomo Electric Device Innovations (SEDI)

Qorvo

NXP

Power Integrations, Inc.

Navitas (GeneSiC)

Efficient Power Conversion Corporation (EPC)

Innoscence

BYD Semiconductor

Renesas Electronics (Transphorm)

Microchip (Microsemi)

Mitsubishi Electric (Vincotech)

Semikron Danfoss

Fuji Electric

Toshiba

Bosch

San'an Optoelectronics

Littelfuse (IXYS)

CETC 55

WeEn Semiconductors

BASiC Semiconductor

SemiQ

Diodes Incorporated

SanRex

Alpha & Omega Semiconductor

United Nova Technology

KEC Corporation

PANJIT Group

Nexperia

Vishay Intertechnology

Zhuzhou CRRC Times Electric

China Resources Microelectronics Limited

StarPower

Yangzhou Yangjie Electronic Technology

Guangdong AccoPower Semiconductor

Changzhou Galaxy Century Microelectronics

Hangzhou Silan Microelectronics

Cisoid

SK powertech

InventChip Technology

Hebei Sinopack Electronic Technology

Oriental Semiconductor

Jilin Sino-Microelectronics

PN Junction Semiconductor (Hangzhou)

Key Questions Addressed in this Report

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

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

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

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

How does GaN and SiC Power Semiconductor break out by Type, by Application?

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