

# Global SiC and GaN Power Devices Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global SiC and GaN Power Devices market size is expected to reach \$ 25140 million by 2032, rising at a market growth of 20.5% CAGR during the forecast period (2026-2032).

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.

The global GaN Power Devices market size was US\$ 406 million in 2024 and is forecast to a readjusted size of US\$ 2,245 million by 2031 with a CAGR of 25.6% during the forecast period 2025-2031.

The global SiC Power Devices market size was US\$ 4.87 billion in 2024 and is forecast to a readjusted size of US\$ 18.8 billion by 2031 with a CAGR of 20.5% during the forecast period 2025-2031.

The North America GaN and SiC Power Semiconductor market size was US\$ 1,039 million in 2024, while China was US\$ 2,584 million. The proportion of the North America was 19.69% in 2024, while China percentage was 48.9%, and it is predicted that China share will reach 61.1% in 2031, trailing a CAGR of 24.53 % through the analysis period.

The global key manufacturers of GaN Power Devices include Infineon (GaN Systems),

Navitas (GeneSiC), Innoscience, Power Integrations, Inc., Renesas Electronics (Transphorm), Efficient Power Conversion Corporation (EPC), etc. In 2024, the global top five players occupied for a share approximately 88% in terms of revenue.

The global key manufacturers of SiC Power Devices include onsemi, STMicroelectronics, Infineon, Wolfspeed, BYD Semiconductor, Bosch, United Nova Technology, Navitas (GeneSiC), Guangdong AccoPower Semiconductor, Rohm, San'an Optoelectronics, etc,. In 2024, the global top seven players occupied for a share approximately 85% in terms of revenue.

Automotive is the largest market, holds a share about 81% in 2024, it is prejected that Automotive will reach 83.6% in 2031.

In North America, in terms of sales volume, in 2024, the top five players hold a share about 76%, while in China, top five players hold a share nearly 62.9%.

The global GaN and SiC Power Semiconductor market is segmented by company, region (country), by Type, and by Application. Players, stakeholders, and other participants in the global GaN and SiC Power Semiconductor market will be able to gain the upper hand as they use the report as a powerful resource. The segmental analysis focuses on sales, revenue and forecast by region (country), by Type and by Application for the period 2020-2031.

This report studies the global SiC and GaN Power Devices production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SiC and GaN Power Devices and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of SiC and GaN Power Devices that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global SiC and GaN Power Devices total production and demand, 2021-2032, (K Units)  
Global SiC and GaN Power Devices total production value, 2021-2032, (USD Million)  
Global SiC and GaN Power Devices production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)  
Global SiC and GaN Power Devices consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: SiC and GaN Power Devices domestic production, consumption, key domestic manufacturers and share

Global SiC and GaN Power Devices production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global SiC and GaN Power Devices production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global SiC and GaN Power Devices production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global SiC and GaN Power Devices market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include onsemi, STMicroelectronics, Infineon (GaN Systems), Wolfspeed, BYD Semiconductor, Bosch, United Nova Technology, Innoscience, Navitas (GeneSiC), Guangdong AccoPower Semiconductor, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SiC and GaN Power Devices market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global SiC and GaN Power Devices Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global SiC and GaN Power Devices Market, Segmentation by Type:

SiC Power Devices

GaN Power Devices

#### Global SiC and GaN Power Devices Market, 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

#### Companies Profiled:

onsemi

STMicroelectronics

Infineon (GaN Systems)

Wolfspeed

BYD Semiconductor

Bosch

United Nova Technology

Innoscence

Navitas (GeneSiC)

Guangdong AccoPower Semiconductor

Rohm

San'an Optoelectronics

Efficient Power Conversion Corporation (EPC)

Power Integrations, Inc.

Semikron Danfoss

Mitsubishi Electric

BASiC Semiconductor

Fuji Electric

SemiQ

PN Junction Semiconductor (Hangzhou)

Zhuzhou CRRC Times Electric

InventChip Technology

Microchip (Microsemi)

CETC 55

Toshiba

WeEn Semiconductors

Littelfuse (IXYS)

Renesas Electronics (Transphorm)

Yangzhou Yangjie Electronic Technology

Vishay Intertechnology

China Resources Microelectronics Limited

Nexperia

SK powertech

Texas Instruments

Alpha & Omega Semiconductor

SanRex

StarPower

Changzhou Galaxy Century Microelectronics

GE Aerospace

Hangzhou Silan Microelectronics

KEC

PANJIT Group

Diodes Incorporated

**Key Questions Answered:**

1. How big is the global SiC and GaN Power Devices market?
2. What is the demand of the global SiC and GaN Power Devices market?
3. What is the year over year growth of the global SiC and GaN Power Devices market?
4. What is the production and production value of the global SiC and GaN Power Devices market?
5. Who are the key producers in the global SiC and GaN Power Devices market?
6. What are the growth factors driving the market demand?

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