

# Global Gallium Nitride and Silicon Carbide Power Semiconductors Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Gallium Nitride and Silicon Carbide Power Semiconductors market size will reach 5,982.56 Million USD in 2025 and is projected to reach 28,928.85 Million USD by 2032, with a CAGR of 25.25% (2025-2032). Notably, the China Gallium Nitride and Silicon Carbide Power Semiconductors market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Gallium Nitride (GaN) and Silicon Carbide (SiC) power semiconductors are advanced materials used in the manufacturing of high-performance electronic devices, particularly power electronics. Both GaN and SiC offer distinct advantages over traditional silicon-based semiconductors. GaN devices exhibit high electron mobility and allow for efficient power conversion at high frequencies, making them suitable for applications like radio frequency amplifiers and power supplies. SiC, on the other hand, has a wide bandgap, enabling high-temperature operation and reduced power losses in high-voltage and high-power applications such as electric vehicles and renewable energy systems. These materials enable the development of power semiconductor devices like transistors and diodes that operate with increased efficiency, higher power density, and improved thermal performance compared to conventional silicon devices, contributing to the advancement of energy-efficient and compact electronic systems.

The major global suppliers of Gallium Nitride and Silicon Carbide Power Semiconductors include Infineon, CREE (Wolfspeed), Roma Semiconductor Group, STMicroelectronics, ON Semiconductor, Mitsubishi Electric, Fuji Electric, Littelfuse, Shenzhen Basic Semiconductor, Tyco Tianrun Semiconductor Technology (Beijing), etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Gallium Nitride and Silicon Carbide Power Semiconductors. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major suppliers, as well as the market status and trends of different product types and applications in the global Gallium Nitride and Silicon Carbide Power Semiconductors market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Gallium Nitride and Silicon Carbide Power Semiconductors market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Gallium Nitride and Silicon Carbide Power Semiconductors industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Suppliers of Gallium Nitride and Silicon Carbide Power Semiconductors Include:

Infineon

CREE (Wolfspeed)

Roma Semiconductor Group

STMicroelectronics

ON Semiconductor

Mitsubishi Electric

Fuji Electric

Littelfuse

Shenzhen Basic Semiconductor

Tyco Tianrun Semiconductor Technology (Beijing)

Gallium Nitride and Silicon Carbide Power Semiconductors Product Segment Include:

Silicon Carbide Power Semiconductor

Gallium Nitride Power Semiconductor

Gallium Nitride and Silicon Carbide Power Semiconductors Product Application Include:

Consumer Electronics

New Energy Grid Connection

Rail

Industrial Motor

Ups Power Supply

New Energy Vehicles

Other

## **Chapter Scope**

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