

# Global GaN-on-Si Wafer Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global GaN-on-Si Wafer market size will reach 159.04 Million USD in 2025 and is projected to reach 841.43 Million USD by 2032, with a CAGR of 26.87% (2025-2032). Notably, the China GaN-on-Si Wafer 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

A GaN-on-Si wafer is a semiconductor substrate composed of gallium nitride (GaN) epitaxially grown on a silicon (Si) substrate. Gallium nitride is a wide-bandgap semiconductor material with superior electrical and thermal properties, making it suitable for high-power and high-frequency electronic devices. By growing GaN on a silicon substrate, GaN-on-Si wafers offer advantages such as lower production costs, larger wafer sizes, and compatibility with existing silicon-based fabrication processes. These wafers are widely used in the production of power electronic devices, such as high-electron-mobility transistors (HEMTs) and diodes, as well as optoelectronic devices, sensors, and photonic integrated circuits (PICs), for applications including power supplies, RF amplifiers, wireless communication systems, lighting, displays, and telecommunications.

The major global manufacturers of GaN-on-Si Wafer include Innoscience, Beijing SMEI, Episil-Precision, IGSS-GaN Pte Ltd, AZZURRO, 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 GaN-on-Si Wafer. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global GaN-on-Si Wafer 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 GaN-on-Si Wafer 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 GaN-on-Si Wafer 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 Manufacturers of GaN-on-Si Wafer Include:

Innoscence

Beijing SMEI

Episil-Precision

IGSS-GaN Pte Ltd

AZZURRO

GaN-on-Si Wafer Product Segment Include:

6 Inch

8 Inch

Others

GaN-on-Si Wafer Product Application Include:

GaN Power Devices

GaN RF Devices

## **Chapter Scope**

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