

Global GaN Wafer Substrate Market Growth 2025-2031

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Abstracts

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The global GaN Wafer Substrate market size is predicted to grow from US\$ 168 million in 2025 to US\$ 332 million in 2031; it is expected to grow at a CAGR of 12.1% from 2025 to 2031.

This report studies the Gallium Nitride (GaN) substrate/wafers.

Currently, the mainstream product in the industry is 2-inch GaN substrate wafers, but 4-inch GaN wafers have also been commercialized. At present, GaN substrates are mainly dominated by Japanese manufacturers such as Sumitomo Electric Device and Mitsubishi. Chinese companies are in the second echelon, with representative manufacturers including Sanan Optoelectronics, Suzhou Nanowin Science and Technology, Sino Nitride Semiconductor, Eta Research Ltd and Sino Nitride Semiconductor.

Japan is the largest market of GaN substrate/wafers, driven by demand from Photoelectric Lasers (like laser TVs). Currently, due to the high cost, the commercial application of gallium nitride substrates is still on the eve of an explosion.

In next few years, we think the GaN epitaxial wafers like (GaN on Si, GaN on SiC) will grow faster, driven by GaN power devices and GaN RF devices, especially the GaN on Si wafers, driven by demand from consumer electronics, like such as mobile phone fast charging, adapters, etc. GaN power devices have grown rapidly in recent years, and a large number of companies have gradually entered the industry. In the next few years, the main market demand for gallium nitride will come from the automotive. In the automotive, the entry point of GaN power devices is the on-board charger (OBC).

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

This Insight Report provides a comprehensive analysis of the global GaN Wafer Substrate 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 Wafer Substrate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GaN Wafer Substrate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN Wafer Substrate 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 Wafer Substrate.

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

Segmentation by Type:

2 inch GaN Wafer

4 inch GaN Wafer

Others

Segmentation by Application:

Laser Diodes

Power Electronic Devices

High Frequency Electronic Devices

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.

Sumitomo Electric Device Innovations (SEDI) (SCIOCS)

Mitsubishi Chemical

Eta Research Ltd

Suzhou Nanowin Science and Technology

Sanan Optoelectronics

Sino Nitride Semiconductor

Goetsu Semiconductor Wuxi

BTOZ

Toyoda Gosei

Kyma Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global GaN Wafer Substrate market?

What factors are driving GaN Wafer Substrate market growth, globally and by region?

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

How do GaN Wafer Substrate market opportunities vary by end market size?

How does GaN Wafer Substrate break out by Type, by Application?

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