

Global GaN Power Wafer Foundry Market Growth 2026-2032

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Abstracts

The global GaN Power Wafer Foundry market size is predicted to grow from US\$ 185 million in 2025 to US\$ 630 million in 2032; it is expected to grow at a CAGR of 19.5% from 2026 to 2032.

GaN has emerged as a revolutionary semiconductor material with several distinct advantages over incumbent technologies in both power electronics and radio frequency (RF) applications. GaN's versatility, combined with its ability to operate at high frequencies and handle high power densities, positions it as a pivotal technology driving innovation in power electronics, telecommunications, aerospace and defense, and beyond.

This report studies the GaN power semiconductor wafer foundry, include TSMC, GlobalFoundries (GF), United Microelectronics Corporation (UMC), VIS (Vanguard International Semiconductor), X-Fab, Episil Technology Inc., and Sanan IC, etc.

United States market for GaN Power Wafer Foundry is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for GaN Power Wafer Foundry is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for GaN Power Wafer Foundry is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key GaN Power Wafer Foundry players cover TSMC, GlobalFoundries, United Microelectronics Corporation (UMC), VIS (Vanguard International Semiconductor), X-

Fab, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “GaN Power Wafer Foundry Industry Forecast” looks at past sales and reviews total world GaN Power Wafer Foundry sales in 2025, providing a comprehensive analysis by region and market sector of projected GaN Power Wafer Foundry sales for 2026 through 2032. With GaN Power Wafer Foundry sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaN Power Wafer Foundry industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN Power Wafer Foundry and breaks down the forecast by Technology, 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 Power Wafer Foundry.

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

Segmentation by Technology:

8-inch GaN-on-Si Wafer Foundry

6-inch GaN-on-Si Wafer Foundry

Segmentation by Application:

Consumer Electronics

Industrial

Automotive Electronics

Renewable & Energy Storage

Telecom & Datacom

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.

TSMC

GlobalFoundries

United Microelectronics Corporation (UMC)

VIS (Vanguard International Semiconductor)

X-Fab

Sanan IC

Episil Technology Inc.

BelGaN

DB HiTek

Samsung Electronics

SK keyfoundry

Odyssey Semiconductor

Taiwan-Asia Semiconductor (TASC)

Key Questions Addressed in this Report

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

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

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

How do GaN Power Wafer Foundry market opportunities vary by end market size?

How does GaN Power Wafer Foundry break out by Technology, by Application?

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