

Global GaN Power Semiconductor Devices Market Growth 2025-2031

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Abstracts

The global GaN Power Semiconductor Devices market size is predicted to grow from US\$ 558 million in 2025 to US\$ 2257 million in 2031; it is expected to grow at a CAGR of 26.2% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Power GaN (Gallium Nitride) devices are used in high-efficiency power electronics, especially where compact, high-performance systems are needed. They are increasingly popular in applications that require high power density, fast switching speeds, and high efficiency, such as in electric vehicles (EVs), data centers, consumer electronics, and renewable energy systems.

The GaN Power Devices include GaN HEMT Discrettes, GaN SiP, and SoC, etc.

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.

2025 is shaping up as an exciting year for GaN, we are still early in the GaN revolution with huge opportunities still ahead in the short, medium, and long term.

Short term, GaN has just begun to penetrate the power supply market, and adoption is accelerating across a wide range of low-power applications, including several

mentioned above—metering, appliances, TVs, automotive and residential networking.

In the medium term, we believe that the opportunity for GaN at high power levels is massive, nowhere more so than in AI data centers. While data center operators are eager for innovative power solutions for AI, adoption of GaN has been inhibited by the challenges of using discrete GaN in high reliability systems.

Longer term, we believe GaN can achieve power levels sufficient for EV drivetrains at much lower cost than silicon carbide, the incumbent technology in many EVs.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN Power Semiconductor Devices 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 Power Semiconductor Devices.

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

Segmentation by Type:

GaN Power >600V

GaN Power

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