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Global High Power GaN Devices Market Growth 2026-2032

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Abstracts

The global High Power GaN Devices market size is predicted to grow from US$ 409 million in 2025 to US$ 2035 million in 2032; it is expected to grow at a CAGR of 26.3% from 2026 to 2032.

High Power Gallium Nitride (GaN) devices are advanced power semiconductor components designed to operate at high voltages (typically >650V), high currents, and high switching frequencies. Leveraging GaN?s wide bandgap properties?such as high breakdown electric field, high thermal conductivity, and high electron mobility?these devices significantly outperform traditional silicon and even some SiC devices in terms of power density, efficiency, and thermal management. Key product categories include High-Voltage GaN HEMTs, GaN-based Power Modules, and GaN-on-GaN discrete transistors. These devices are widely utilized in electric vehicles (EV) traction inverters, industrial motor drives, aerospace and defense power systems, renewable energy inverters (solar/wind), and smart grid infrastructure. High Power GaN devices are often implemented with advanced packaging such as co-packaged GaN with drivers, die-attached GaN modules, and multi-chip power systems to enable high-current handling and system-level integration.

The future of High Power GaN devices is tightly aligned with the global transition toward electrification, decarbonization, and high-efficiency power systems. As EVs demand lighter, more efficient powertrains, GaN?s ability to reduce inverter volume and switching losses positions it as a key enabler for next-generation 800V vehicle architectures. Similarly, in the renewable energy and smart grid sectors, GaN?s high-frequency operation allows for more compact and efficient inverters, leading to cost and space savings at the system level. Technological advancements are also pushing the limits of GaN device performance, including GaN-on-GaN and GaN-on-diamond

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platforms, which offer enhanced thermal dissipation and breakdown capabilities suitable for kilovolt-class applications. Furthermore, with the rise of integrated solutions like GaN Power ICs and monolithic GaN systems, the ecosystem is shifting toward higher levels of device integration and digital control compatibility. Leading players such as Transphorm, Infineon, Navitas, and EPC, along with R&D institutions and foundries in the U.S., Japan, and China, are aggressively investing in high-power GaN development. As cost reductions in substrates and epitaxy processes continue, High Power GaN devices are expected to achieve broader adoption in industrial and automotive power domains traditionally dominated by silicon IGBTs and SiC MOSFETs.

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

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

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

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

Segmentation by Type:

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650V GaN Devices

700V GaN Devices

Segmentation by Application:

Mobile and Consumer

PV, Energy Storage, Wind Power

UPS, Data Center & Server

Defence & Aerospace

Industrial Motor/Drive

Automotive & Mobility

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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- 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.

- Innoscience

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Infineon (GaN Systems)

Navitas (GeneSiC)

Efficient Power Conversion Corporation (EPC)

Power Integrations, Inc.

Renesas Electronics (Transphorm)

STMicroelectronics

Rohm

Texas Instruments

Nexperia

China Resources Microelectronics Limited

Nanjing Xinkansen Technology

onsemi

Hangzhou Silan Microelectronics

Alpha and Omega Semiconductor Limited (AOS)

Runxin Microelectronics

GaNext

Chengdu DanXi Technology

GaNPower

CloudSemi

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Key Questions Addressed in this Report

What is the 10-year outlook for the global High Power GaN Devices market?

What factors are driving High Power GaN Devices market growth, globally and by region?

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

How do High Power GaN Devices market opportunities vary by end market size?

How does High Power GaN Devices break out by Type, by Application?

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