

# Global Gallium Nitride Power Device Market Growth 2025-2031

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## Abstracts

The global Gallium Nitride Power Device market size is predicted to grow from US\$ 414 million in 2025 to US\$ 1823 million in 2031; it is expected to grow at a CAGR of 28.0% 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.

Gallium nitride (GaN) compound is a hard semiconductor material featuring a wide band gap (energy gap) of 3.4 electronvolts (eV) with high heat capacity and thermal conductivity.

Gallium nitride (GaN) transistors have evolved as an enhanced performance substitute of silicon-based transistors, owing to their ability of fabricating more compact devices for a given resistance value and breakdown voltage as compared to silicon devices. These power devices can attain extremely low-resistance and high-frequency switching. These properties are exploited in high-efficiency power supplies, electric vehicle (EV), hybrid electric vehicle (HEV), photovoltaic inverters, and RF switching. Moreover, these devices are applicable in power supplies for server, IT equipment, high-efficiency & stable power supplies, and EV & HEV devices. Therefore, the increased application influences the GaN power device market growth.

LP Information, Inc. (LPI) ' newest research report, the "Gallium Nitride Power Device Industry Forecast" looks at past sales and reviews total world Gallium Nitride Power Device sales in 2024, providing a comprehensive analysis by region and market sector of projected Gallium Nitride Power Device sales for 2025 through 2031. With Gallium

Nitride Power Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Gallium Nitride Power Device industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gallium Nitride Power Device 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 Gallium Nitride Power Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Gallium Nitride Power Device market by product type, application, key manufacturers and key regions and countries.

### **Segmentation by Type:**

Power Device

RF Power Device

### **Segmentation by Application:**

Telecommunications

Automotive

Industrial

Medical

Military, Defense & Aerospace

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.

Cree Inc

Efficient Power Conversion (EPC) Corporation

Infineon Technologies

GaN Systems Inc

Macom

Microchip Technology Corporation

Mitsubishi Electric Corporation

Navitas Semiconductor

Qorvo, Inc

Toshiba

On Semiconductors

Panasonic Corporation

VisIC

Texas Instruments Inc

Fujitsu Limited

Taiwan Semiconductor Manufacturing Company

### **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Gallium Nitride Power Device market?

What factors are driving Gallium Nitride Power Device market growth, globally and by region?

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

How do Gallium Nitride Power Device market opportunities vary by end market size?

How does Gallium Nitride Power Device break out by Type, by Application?

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