

# Global Gallium Nitride RF Semiconductor Device Market Growth 2025-2031

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## Abstracts

The global Gallium Nitride RF Semiconductor Device market size is predicted to grow from US\$ 947 million in 2025 to US\$ 1313 million in 2031; it is expected to grow at a CAGR of 5.6% 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.

The global market for semiconductor was estimated at US\$ 579 billion in the year 2022, is projected to US\$ 790 billion by 2029, growing at a CAGR of 6% during the forecast period. Although some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.76%, Sensor with 16.31%, and Logic with 14.46% growth, Memory declined with 12.64% year over year. The microprocessor (MPU) and microcontroller (MCU) segments will experience stagnant growth due to weak shipments and investment in notebooks, computers, and standard desktops. In the current market scenario, the growing popularity of IoT-based electronics is stimulating the need for powerful processors and controllers. Hybrid MPUs and MCUs provide real-time embedded processing and control for the topmost IoT-based applications, resulting in significant market growth. The Analog IC segment is expected to grow gradually, while demand from the networking and communications industries is limited. Few of the emerging trends in the growing demand for Analog integrated circuits include signal conversion, automotive-specific Analog applications, and power management. They drive the growing demand for discrete power devices.

LP Information, Inc. (LPI) ' newest research report, the "Gallium Nitride RF Semiconductor Device Industry Forecast" looks at past sales and reviews total world

Gallium Nitride RF Semiconductor Device sales in 2024, providing a comprehensive analysis by region and market sector of projected Gallium Nitride RF Semiconductor Device sales for 2025 through 2031. With Gallium Nitride RF Semiconductor 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 RF Semiconductor Device industry.

This Insight Report provides a comprehensive analysis of the global Gallium Nitride RF Semiconductor 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 RF Semiconductor 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 RF Semiconductor Device market.

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

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

### **Segmentation by Type:**

2 Inch

4 Inch

6-Inch and Above

### **Segmentation by Application:**

Power Drivers

Supply and Inverter

Radio Frequency

Lighting and Laser

**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 (US)

Samsung (South Korea)

Infineon (Germany)

Qorvo (US)

MACOM (US)

Microchip Technology(US)

Analog Devices (US)

Mitsubishi Electric (Japan)

Efficient Power Conversion (US)

GaN Systems (Canada)

Exagan (France)

VisIC Technologies (Israel)

Integra Technologies (US)

Transphorm (US)

Navitas Semiconductor (US)

Nichia (Japan)

Panasonic (Japan)

Texas Instruments (US)

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

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

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

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

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

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

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