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Global Gallium Nitride on Diamond Market Growth 2025-2031

https://marketpublishers.com/r/GE16FFD0D61FEN.html
Date: February 2025
Pages: 76
Price: US$ 3,660.00 (Single User License)
ID: GE16FFD0D61FEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Gallium Nitride on Diamond market size is predicted to grow from US$ 90.8 million in 2025 to US$ 277 million in 2031; it is expected to grow at a CAGR of 20.4% from 2025 to 2031.

Gallium nitride-on-Diamond technology is a pioneering materials invention from Akash co-founder, Felix Ejeckam that is created by lifting GaN thin films from its original growth substrate and transferring it to a synthetic CVD diamond substrate which, at 1,600-2,000 W/mK, exhibits the highest known thermal conductivity (4+ times higher than the next best materials) ever manufactured. Bringing together the GaN thin films – the core materials used for satellite communications equipment, and synthetic CVD diamond, enables an unprecedented tens of Kilowatt densities of heat to be extracted more efficiently and effectively than ever before. GaN-on-Diamond based satellites opens the world of ubiquitous, low-cost, and ultra-high data rate communications never before imagined.

Gallium Nitride on Diamond market driver as below?

High Thermal Performance: Diamond has exceptionally high thermal conductivity, making it an ideal substrate for dissipating heat generated in high-power electronic devices. GaN on Diamond substrates can enable more efficient heat dissipation, allowing devices to handle higher power levels.

Power Electronics: GaN-based devices are becoming increasingly popular in power electronics applications due to their high power density and efficiency. GaN on Diamond

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substrates can enhance these capabilities further by effectively managing heat, enabling compact and high-performance power electronics systems.

Radio Frequency (RF) and Microwave Devices: GaN-based RF and microwave devices are used in various communication systems, radar systems, and wireless infrastructure. GaN on Diamond substrates can improve the thermal management of these devices, leading to better overall performance and reliability.

5G Technology: The deployment of 5G networks requires advanced RF components that can handle higher frequencies and power levels. GaN on Diamond substrates can enable the development of compact and efficient RF devices for 5G infrastructure.

Aerospace and Defense Applications: The aerospace and defense sectors require high-performance electronics for communication, radar, electronic warfare, and more. GaN on Diamond substrates can provide the necessary power handling and thermal capabilities for these demanding applications.

Automotive Electronics: As vehicles incorporate more electronics for advanced driver assistance systems (ADAS), electric propulsion, and infotainment, GaN on Diamond substrates can help achieve higher power densities and improved thermal management in automotive electronics.

Wireless Charging: GaN-based devices are used in wireless charging systems due to their efficiency and power handling. GaN on Diamond substrates can enhance the thermal management of these systems, ensuring consistent performance.

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

This Insight Report provides a comprehensive analysis of the global Gallium Nitride on Diamond 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 on Diamond portfolios and capabilities, market entry strategies, market

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positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gallium Nitride on Diamond market.

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

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

Segmentation by Type:

2-inch Wafers

4-inch Wafers

6-inch Wafers

Others

Segmentation by Application:

Aerospace and Military

Automobile

Communication Net Work

Others

This report also splits the market by region:

Americas

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- United States
- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt

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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.

Element Six

Akash Systems

Qorvo

RFHIC Corporation

Mitsubishi Electric

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gallium Nitride on Diamond market?

What factors are driving Gallium Nitride on Diamond market growth, globally and by region?

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

How do Gallium Nitride on Diamond market opportunities vary by end market size?

How does Gallium Nitride on Diamond break out by Type, by Application?

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