

Global Gallium Nitride on Diamond Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Gallium Nitride on Diamond market size was valued at US\$ 81.1 million in 2024 and is forecast to a readjusted size of USD 274 million by 2031 with a CAGR of 19.2% during review period.

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 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.

This report is a detailed and comprehensive analysis for global Gallium Nitride on Diamond market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Gallium Nitride on Diamond market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Gallium Nitride on Diamond market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Gallium Nitride on Diamond market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Gallium Nitride on Diamond market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Gallium Nitride on Diamond
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Gallium Nitride on Diamond market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Element Six, Akash Systems, Qorvo, RFHIC Corporation, Mitsubishi Electric, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Gallium Nitride on Diamond market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

2-inch Wafers

4-inch Wafers

6-inch Wafers

Others

Market segment by Application

Aerospace and Military

Automobile

Communication Net Work

Others

Major players covered

Element Six

Akash Systems

Qorvo

RFHIC Corporation

Mitsubishi Electric

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Gallium Nitride on Diamond product scope, market overview,

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market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gallium Nitride on Diamond, with price, sales quantity, revenue, and global market share of Gallium Nitride on Diamond from 2020 to 2025.

Chapter 3, the Gallium Nitride on Diamond competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gallium Nitride on Diamond breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Gallium Nitride on Diamond market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Gallium Nitride on Diamond.

Chapter 14 and 15, to describe Gallium Nitride on Diamond sales channel, distributors, customers, research findings and conclusion.

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