

Global Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Gallium nitride (GaN) is a material used in the production of semiconductor power devices as well as RF components and light-emitting diodes (LEDs).

Following a strong growth of 26.2 percent in the year 2021, WSTS revised it down to a single digit growth for the worldwide semiconductor market in 2022 with a total size of US\$580 billion, up 4.4 percent. WSTS lowered growth estimation as inflation rises and end markets seeing weaker demand, especially those exposed to consumer spending. While some major categories are still double-digit year-over-year growth in 2022, led by Analog with 20.8 percent, Sensors with 16.3 percent, and Logic with 14.5 percent growth. Memory declined with 12.6 percent year over year. In 2022, all geographical regions showed double-digit growth except Asia Pacific. The largest region, Asia Pacific, declined 2.0 percent. Sales in the Americas were US\$142.1 billion, up 17.0% year-on-year, sales in Europe were US\$53.8 billion, up 12.6% year-on-year, and sales in Japan were US\$48.1 billion, up 10.0% year-on-year. However, sales in the largest Asia-Pacific region were US\$336.2 billion, down 2.0% year-on-year.

The Global Info Research report includes an overview of the development of the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer

industry chain, the market status of Industrial & Power (Discrete & IC, Substrate Wafer), Communication Infrastructure (Discrete & IC, Substrate Wafer), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer.

Regionally, the report analyzes the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Discrete & IC, Substrate Wafer).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer market.

Regional Analysis: The report involves examining the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer:

Company Analysis: Report covers individual Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial & Power, Communication Infrastructure).

Technology Analysis: Report covers specific technologies relevant to Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer. It assesses the current state, advancements, and potential future developments in Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type,

and by Application in terms of volume and value.

Market segment by Type

Discrete & IC

Substrate Wafer

Market segment by Application

Industrial & Power

Communication Infrastructure

Major players covered

Aixtron

Azzurro Semiconductors

Cree

Epigan

Fujitsu

International Quantum Epitaxy (IQE)?

Koninklijke Philips

Mitsubishi Chemical

Nippon Telegraph & Telephone

RF Micro Devices

Texas Instruments

Toshiba

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 (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer, with price, sales, revenue and global market share of Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer from 2019 to 2024.

Chapter 3, the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer.

Chapter 14 and 15, to describe Gallium Nitride (GaN) Semiconductor Devices (Discrete & IC) and Substrate Wafer sales channel, distributors, customers, research findings and conclusion.

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Figure 80. Direct Channel Pros & Cons

Figure 81. Indirect Channel Pros & Cons

Figure 82. Methodology

Figure 83. Research Process and Data Source

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