

Global GaN Epitaxial Wafers 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 GaN Epitaxial Wafers 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.

GaN epitaxial wafers are grown by HVPE or MOCVD method, can be used as an ideal and excellent substrate for high frequency, high speed and high power device.

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 GaN Epitaxial Wafers industry chain, the market status of Electric Vehicles (MOCVD Method, MBE Method), 5G Communications (MOCVD Method, MBE Method), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of GaN Epitaxial Wafers.

Regionally, the report analyzes the GaN Epitaxial Wafers 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 GaN Epitaxial Wafers market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the GaN Epitaxial Wafers 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 GaN Epitaxial Wafers 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 Pcs), revenue generated, and market share of different by Type (e.g., MOCVD Method, MBE Method).

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 GaN Epitaxial Wafers market.

Regional Analysis: The report involves examining the GaN Epitaxial Wafers 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 GaN Epitaxial Wafers market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to GaN Epitaxial Wafers:

Company Analysis: Report covers individual GaN Epitaxial Wafers 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 GaN Epitaxial Wafers. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Electric Vehicles, 5G Communications).

Technology Analysis: Report covers specific technologies relevant to GaN Epitaxial Wafers. It assesses the current state, advancements, and potential future developments in GaN Epitaxial Wafers areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the GaN Epitaxial Wafers 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

GaN Epitaxial Wafers 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

MOCVD Method

MBE Method

Market segment by Application

Electric Vehicles

5G Communications

High-Speed Rails

Radars

Robotics

Others

Major players covered

Mitsubishi Chemical Corporation

EpiGaN

SCIOCS

GLC Semiconductor Group

IGSS GaN

Homray Material Technology

POWDEC K.K.

Nitride Semiconductors Co.,Ltd

Dongguan Sino Crystal Semiconductor Co., Ltd

Atecom Technology Co., Ltd

CorEnergy Semiconductor Co. Ltd

Air Water Inc

Xiamen Powerway Advanced Material Co., Ltd

Ceramicforum Co., Ltd

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 GaN Epitaxial Wafers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN Epitaxial Wafers, with price, sales, revenue and global market share of GaN Epitaxial Wafers from 2019 to 2024.

Chapter 3, the GaN Epitaxial Wafers competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the GaN Epitaxial Wafers 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 GaN Epitaxial Wafers 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 GaN Epitaxial Wafers.

Chapter 14 and 15, to describe GaN Epitaxial Wafers sales channel, distributors, customers, research findings and conclusion.

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