

Global GaN Semiconductor Device 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 Semiconductor Device market size was valued at USD 1040.4 million in 2023 and is forecast to a readjusted size of USD 1318.7 million by 2030 with a CAGR of 3.4% during review period.

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 12.162% 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.

The Global Info Research report includes an overview of the development of the GaN Semiconductor Device industry chain, the market status of Automotive (Power Semiconductors, Opto Semiconductors), Consumer Electronics (Power Semiconductors, Opto Semiconductors), and key enterprises in developed and

developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of GaN Semiconductor Device.

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

Key Features:

The report presents comprehensive understanding of the GaN Semiconductor Device 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 Semiconductor Device 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., Power Semiconductors, Opto Semiconductors).

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 Semiconductor Device market.

Regional Analysis: The report involves examining the GaN Semiconductor Device 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 Semiconductor Device 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 Semiconductor Device:

Company Analysis: Report covers individual GaN Semiconductor Device 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 Semiconductor Device. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Consumer Electronics).

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

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

Power Semiconductors

Opto Semiconductors

RF Semiconductors

Market segment by Application

Automotive

Consumer Electronics

Aerospace & Defense

Healthcare

Information & Communication Technology

Other

Major players covered

Toshiba

Panasonic

Cree

GaN Systems

Infineon Technologies

OSRAM

Efficient Power Conversion

NXP Semiconductors

Texas Instruments

NTT Advanced Technology

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 Semiconductor Device product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the GaN Semiconductor Device 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 Semiconductor Device 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 Semiconductor Device.

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

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