

Global GaN Power Discrete 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 Power Discrete Device 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 power discrete devices have excellent physical characteristics such as low conduction loss and high current density, which can significantly reduce the power loss and cooling load of the communication system and greatly reduce the operating cost. It has been widely used in microwave integrated circuits, high voltage and high power fields. Gallium nitride high power semiconductor devices also began to be used in inverter, voltage regulator, transformer, wireless charging and other fields.

Gallium Nitride (GaN) power discrete devices are gaining traction in power electronics due to their high-performance characteristics. Market trends include the development of GaN-based solutions for applications like power supplies, automotive, and renewable energy.

The Global Info Research report includes an overview of the development of the GaN Power Discrete Device industry chain, the market status of Consumer Electronics (Embedded Type, Ordinary Type), IT & Telecommunications (Embedded Type, Ordinary Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of GaN Power Discrete Device.

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

Key Features:

The report presents comprehensive understanding of the GaN Power Discrete 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 Power Discrete 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., Embedded Type, Ordinary Type).

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 Power Discrete Device market.

Regional Analysis: The report involves examining the GaN Power Discrete 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 Power Discrete 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 Power Discrete Device:

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

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

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

Embedded Type

Ordinary Type

Market segment by Application

Consumer Electronics

IT & Telecommunications

Automotive

Aerospace & Defense

Others

Major players covered

Efficient Power Conversion Corporation

NXP Semiconductors N.V.

GaN Systems Inc

Texas Instruments

Infineon Technologies AG

Fujitsu Limited

Transphorm Inc

Cree Incorporated

OSRAM Opto Semiconductors

Qorvo

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

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

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

Chapter 4, the GaN Power Discrete 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 Power Discrete 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 Power Discrete Device.

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

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