

Global GaN Power Semiconductor Devices Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G004A7ED7FEDEN.html>

Date: June 2024

Pages: 134

Price: US\$ 3,480.00 (Single User License)

ID: G004A7ED7FEDEN

Abstracts

According to our (Global Info Research) latest study, the global GaN Power Semiconductor Devices market size was valued at USD 176.9 million in 2023 and is forecast to a readjusted size of USD 251.7 million by 2030 with a CAGR of 5.2% during review period.

This report studies the WBG Power Devices market, Wide-bandgap semiconductors (WBG or WBGs) are semiconductor materials which have a relatively large band gap compared to typical semiconductors.

We focus on gallium nitride (GaN) Power Devices in this report.

The Global Info Research report includes an overview of the development of the GaN Power Semiconductor Devices industry chain, the market status of Communication (2 Inch, 4 Inch), Automotive (2 Inch, 4 Inch), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of GaN Power Semiconductor Devices.

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

Key Features:

The report presents comprehensive understanding of the GaN Power Semiconductor Devices 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 Semiconductor Devices 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., 2 Inch, 4 Inch).

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 Semiconductor Devices market.

Regional Analysis: The report involves examining the GaN Power Semiconductor Devices 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 Semiconductor Devices 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 Semiconductor Devices:

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

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

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

2 Inch

4 Inch

6 Inch

8 Inch

12 Inch

Market segment by Application

Communication

Automotive

Consumer Electronics

Defence/Aerospace

Healthcare

Industry, Power and Solar & Wind

Major players covered

ALPHA & OMEGA Semiconductor

Avogy

Broadcom Limited

Cambridge Electronics

Cree

Efficient Power Conversion (EPC)

EXAGAN

GaN Systems

IEPC

Infineon

NXP

Panasonic

POWDEC

Transphorm

VisIC

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

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

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

Chapter 4, the GaN Power Semiconductor Devices 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 Semiconductor Devices 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 Semiconductor Devices.

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

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