

Gallium-Oxide Power Devices Market is Predicted to Reach \$86.9 Million by 2033, Expand at 11.4% CAGR

Gallium-Oxide Power Devices Market was valued at \$30.2 million in 2023, is projected to reach \$86.9 million by 2033, growing at a CAGR of 11.4% from 2024-2033.

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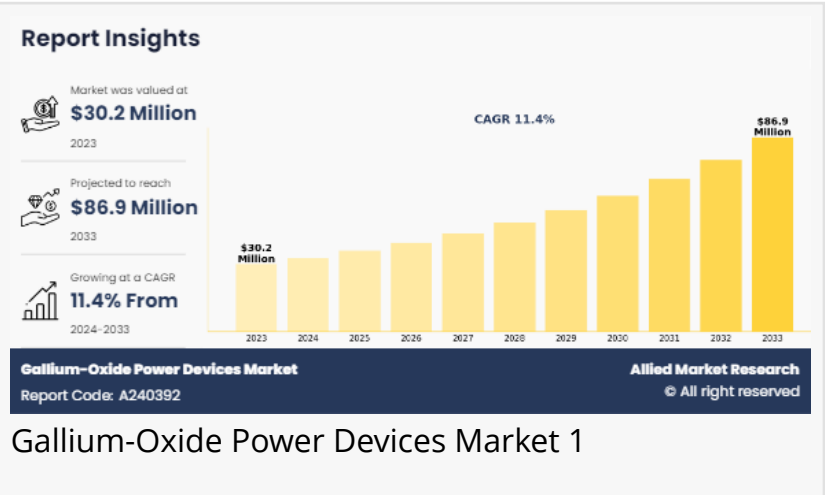
/EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "[Gallium-Oxide Power Devices Market](#), by Type (Transistor, Diode, Others), by End Use (Automotive, Aerospace and Defense, Energy and Power, Others): Global Opportunity Analysis and Industry Forecast, 2024-2033."

The report offers a detailed analysis of the top winning strategies, evolving market trends, market size and estimations, value chain, key investment pockets, drivers & opportunities, competitive landscape and regional

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The transistor device segment dominated the gallium oxide power device market size in terms of revenue in 2023 and is anticipated to grow at a high CAGR during the forecast period.”

Roshan Deshmukh



landscape. The report is a useful source of information for new entrants, shareholders, frontrunners and shareholders in introducing necessary strategies for the future and taking essential steps to significantly strengthen and heighten their position in the market. The gallium-oxide power devices market was valued at \$30.2 million in 2023, and is estimated to reach \$86.9 million by 2033, growing at a CAGR of 11.4% from 2024 to 2033.

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Gallium oxide (Ga₂O₃) is a wide-bandgap semiconductor material known for its excellent electrical and thermal properties, making it ideal for high-power and high-voltage applications. It has a bandgap of approximately 4.8 eV, significantly higher than traditional semiconductors such

as silicon and gallium nitride, which allows it to handle higher electric fields and operate efficiently at elevated temperatures. Gallium oxide is used in power electronics, including transistors and diodes, due to its low on-resistance and ability to withstand high breakdown voltages. Its applications range from electric vehicles to renewable energy systems and advanced power conversion technologies.

The [Gallium-Oxide Power Devices Industry](#) offers numerous benefits, positioning itself as a transformative force in power electronics. One of the primary advantages is its superior efficiency, allowing devices to operate at higher voltages and temperatures while minimizing energy losses. This capability leads to enhanced performance in applications such as electric vehicles, renewable energy systems, and telecommunications infrastructure. Furthermore, gallium oxide devices facilitate smaller, lighter designs, contributing to miniaturization in electronic components. Their rapid switching speeds enable faster processing and improved reliability in critical applications. Additionally, as manufacturers focus on reducing costs and advancing manufacturing techniques, gallium oxide devices present an eco-friendly alternative to traditional materials, aligning with global sustainability goals and driving further Gallium-Oxide Power Devices Market Growth.

The Gallium-Oxide Power Devices Market Size is segmented on the basis of type, end use, and region. By type, the Gallium-Oxide Power Devices Market Share is divided into transistor, diode, and others. By end use, the Gallium-Oxide Power Devices Market Trends is segmented into automotive, aerospace and defense, energy & power, and others. By region, Gallium-Oxide Power Devices Market analysis it is analyzed across North America (the U.S., Canada, and Mexico), Europe (UK, Germany, France, and rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa).

By type, the transistor segment held the highest market share in 2023, accounting for more than half of the global gallium oxide power device market revenue and is estimated to maintain its leadership status throughout the forecast period, owing to the increasing demand for high-efficiency power conversion in sectors such as electric vehicles (EVs), renewable energy systems, and industrial applications. The superior properties of gallium oxide transistors, including higher breakdown voltage and thermal stability, make them ideal for handling high-power, high-voltage applications.

By end user, the other segment accounted for the largest share in 2023, contributing to more than half of the global gallium oxide power device market revenue, due to the broad application of gallium oxide power devices across emerging industries such as defense, aerospace, and high-frequency telecommunications, which require advanced power electronics for high-performance systems. The segment's growth is also driven by the increasing adoption of gallium oxide in specialized power systems that demand superior efficiency and thermal management, further expanding the scope of these devices in niche but rapidly growing markets.

By region, Asia-Pacific held the highest market share in terms of revenue in 2023, accounting for

more than half of the global gallium oxide power device market revenue, owing to the rapid expansion of the semiconductor and electronics manufacturing industries in countries like China, Japan, and South Korea. Additionally, the increasing demand for energy-efficient power devices in electric vehicles (EVs), renewable energy systems, and industrial applications has bolstered the adoption of gallium oxide technologies in the region. Government initiatives supporting renewable energy and the growing presence of key industry players further contribute to the region's market leadership.

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Competitive analysis and profiles of the major gallium-oxide power devices market players, such as Novel Crystal Technology, Inc., Kyma Technologies, ON Semiconductor Corporation, NXP Semiconductors, FLOSFIA, and Atecom Technology Co., Ltd are provided in this report. The key strategies adopted by the major players of the gallium oxide power device market are new product development and collaboration.

Key Finding of the Study:

- By type, the transistor device segment dominated the gallium oxide power device market size in terms of revenue in 2023 and is anticipated to grow at a high CAGR during the forecast period.
- By end user, the others segment dominated the gallium oxide power device market size in terms of revenue in 2023 and is anticipated to grow at the fastest CAGR during the forecast period.
- Region-wise, Asia-Pacific generated the largest revenue in 2023 and is anticipated to grow at the highest CAGR during the forecast period.

Key Benefits For Stakeholders:

- This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the gallium-oxide power devices market analysis from 2023 to 2033 to identify the prevailing gallium-oxide power devices market opportunity.
- The market research is offered along with information related to key drivers, restraints, and opportunities of Gallium-Oxide Power Devices Market Size, Gallium-Oxide Power Devices Market Forecast, and Gallium-Oxide Power Devices Market Insights .
- Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.
- In-depth analysis of the gallium-oxide power devices market segmentation assists to determine the prevailing market opportunities.
- Major countries in each region are mapped according to their revenue contribution to the global siemens surge protector market.

- Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
- The report includes the analysis of the regional as well as global gallium-oxide power devices industry trends, key players, market segments, application areas, and Gallium-Oxide Power Devices Industry growth strategies.

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