

# Global GaN High-electron-mobility Transistor Market Growth 2023-2029

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## Abstracts

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High electron mobility transistors (HEMTs) are transistors that use a 2-dimensional electron gas (2DEG) that is created by a junction between two materials with different band gaps. Gallium nitride (GaN) based HEMTs feature faster switching speed, higher thermal conductivity and lower on-resistance than comparable silicon-based solutions. These features allow GaN transistors and integrated circuits to be used in circuits to increase efficiency, shrink the size, and reduce the cost of a wide variety of power conversion systems.

LPI (LP Information)' newest research report, the "GaN High-electron-mobility Transistor Industry Forecast" looks at past sales and reviews total world GaN High-electron-mobility Transistor sales in 2022, providing a comprehensive analysis by region and market sector of projected GaN High-electron-mobility Transistor sales for 2023 through 2029. With GaN High-electron-mobility Transistor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world GaN High-electron-mobility Transistor industry.

This Insight Report provides a comprehensive analysis of the global GaN High-electron-mobility Transistor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on GaN High-electron-mobility Transistor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global GaN High-electron-mobility Transistor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for GaN High-electron-mobility Transistor and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global GaN High-electron-mobility Transistor.

The global GaN High-electron-mobility Transistor market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for GaN High-electron-mobility Transistor is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for GaN High-electron-mobility Transistor is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for GaN High-electron-mobility Transistor is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key GaN High-electron-mobility Transistor players cover Nexperia, GaN Systems, Infineon Technologies, STMicroelectronics, TI, Renesas, ON Semiconductor and Fujitsu, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of GaN High-electron-mobility Transistor market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

100V

400V

600V

650V

### Segmentation by application

Consumer Electronics

Automotive

Medical Industry

Others

This report also splits the market by region:

### Americas

United States

Canada

Mexico

Brazil

### APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Nexperia

GaN Systems

Infineon Technologies

STMicroelectronics

TI

Renesas

ON Semiconductor

Fujitsu

### Key Questions Addressed in this Report

What is the 10-year outlook for the global GaN High-electron-mobility Transistor market?

What factors are driving GaN High-electron-mobility Transistor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do GaN High-electron-mobility Transistor market opportunities vary by end market size?

How does GaN High-electron-mobility Transistor break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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