

Gallium Nitride (GaN) Power Device Market Expected to Reach Billion by 2030 with a CAGR

*The Business Research Company's
Gallium Nitride (GaN) Power Device
Market Report 2026 – Market Size,
Trends, And Global Forecast 2026-2035*

LONDON, GREATER LONDON, UNITED KINGDOM, September 28, 2026 /EINPresswire.com/ -- "The [gallium nitride \(GaN\) power device market](#) is rapidly evolving, driven by technological innovations and growing demand across various sectors. As the need for more efficient and powerful semiconductor components rises, this market is poised for significant expansion. Let's explore the current market size, key growth drivers, leading regional trends, and the factors influencing this dynamic industry.

Current Market Size and Projected Growth of the Gallium Nitride (GaN) Power Device Market

The gallium nitride power device market has seen remarkable growth in recent years. It is expected to increase from \$0.89 billion in 2025 to \$1.11 billion in 2026, growing at a compound annual growth rate (CAGR) of 25.0%. This historical growth is attributed to heightened demand for energy-efficient power electronics, broader adoption of high-performance semiconductor devices, the expanding rollout of advanced telecommunications infrastructure, increased use of power electronics in consumer gadgets, and rising investments in renewable energy technology.

Download a free sample of the [gallium nitride \(gan\) power device market report](#):

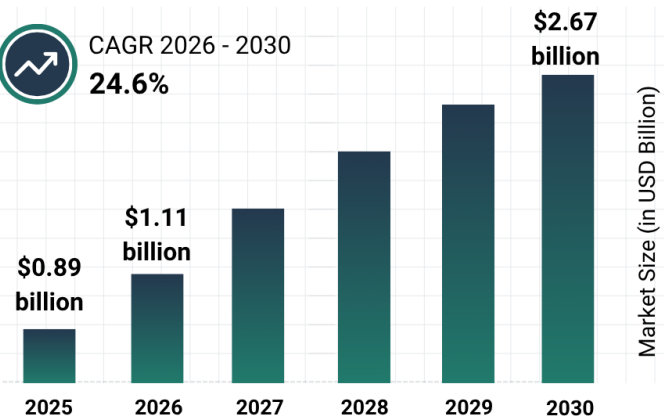
https://www.thebusinessresearchcompany.com/sample_request?id=10750197&type=smp&name=Gallium%20Nitride%20%28GaN%29%20Power%20Device%20Market%20Report%202026&ut

Gallium Nitride (GaN) Power Device Market Report 2026

The Business
Research Company



CAGR 2026 - 2030
24.6%



Gallium Nitride (GaN) Power Device Market

The Business
Research Company

The Business Research Company

Looking ahead, the GaN power device market is projected to experience explosive growth, reaching \$2.67 billion by 2030 with a CAGR of 24.6%. Factors driving this surge include the widespread adoption of ultra-fast charging technologies, accelerating electrification in transportation systems, growing demand for semiconductor devices that offer high power density, increased deployment of next-generation power conversion systems, and more investments in advanced wide bandgap semiconductor manufacturing. Notable trends shaping this forecast period include the rising use of highly efficient wide bandgap semiconductor power devices, demand for high-frequency and high-voltage power conversion solutions, growing integration of compact GaN power devices in sophisticated power electronics, expanding applications in fast charging, and development of highly reliable power semiconductor components.

Understanding Gallium Nitride Power Devices and Their Advantages

Gallium nitride power devices represent advanced semiconductor technologies created using GaN material, which offers superior power density, faster switching speeds, and better energy efficiency compared to traditional silicon-based components. These devices are designed to function effectively under demanding conditions such as high voltage, high frequency, and elevated temperatures while minimizing power loss. GaN power devices are critical in modern power electronics, enabling smaller system designs, enhanced reliability, and more efficient power conversion.

View the full gallium nitride (gan) power device market report:

https://www.thebusinessresearchcompany.com/report/gallium-nitride-gan-power-device-market-global-report?utm_source=EINPresswire&utm_medium=Paid&utm_campaign=Sep_PR

The Increasing Role of Electric Vehicles Boosting GaN Power Device Market

One of the primary factors propelling the growth of the gallium nitride power device market is the shift toward electric vehicles (EVs). EVs, which run entirely or partially on electricity stored in rechargeable batteries rather than conventional fuel engines, are gaining popularity due to environmental concerns. These vehicles contribute to lower greenhouse gas emissions and reduce dependency on fossil fuels. GaN power devices enhance EV performance by enabling faster charging times, improving power efficiency, and reducing energy losses. These improvements lead to longer driving ranges and allow for more compact, lightweight power systems. For example, in April 2024, the International Energy Agency (IEA) reported that global electric car sales reached nearly 14 million units, representing 18% of all car sales—a jump from 14% in 2022. In 2023 alone, sales increased by 3.5 million units, reflecting a substantial 35% year-on-year growth. This strong shift toward electric vehicles is a significant driver behind the expanding gallium nitride power device market.

Regional Growth Patterns in the Gallium Nitride Power Device Market

In 2025, North America held the largest share of the [global gallium nitride power device market](#).

However, the Asia-Pacific region is expected to lead in growth throughout the forecast period. The market report covers essential regions such as Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, and the Middle East and Africa, providing a comprehensive view of the market's global expansion.

New analytical features added to our 2026 market reports:

- Market attractiveness scoring and analysis
- Total addressable market (TAM) analysis
- Company scoring matrix graphics and tables
- Excel-based forecasting dashboards
- Market hotspots infographics
- Key technologies and future trend analysis
- Updated graphics and tables

Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: marketing@tbrc.info

The Business Research Company - www.thebusinessresearchcompany.com

Follow Us On:

- LinkedIn: <https://in.linkedin.com/company/the-business-research-company>

Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

Visit us on social media:

[LinkedIn](#)

[Facebook](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/945735030>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.