

Global GaN FET Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GaN FET market size is expected to reach \$ 584 million by 2032, rising at a market growth of 14.0% CAGR during the forecast period (2026-2032).

GaN FETs, or gallium nitride field-effect transistors, are high-performance power and RF semiconductor devices built on wide-bandgap GaN materials. They primarily address the loss, size, and thermal-management limitations of conventional silicon devices under high-frequency switching, high-efficiency power conversion, high power-density, and high-temperature operating conditions. Based on official product pages, the market has now developed a complete product spectrum ranging from discrete GaN HEMTs, cascode GaN FETs, and bidirectional GaN devices, to GaN power ICs with integrated gate drive, control, protection, and current sensing, as well as RF GaN HEMTs and MMICs for base stations, radar, satellite communications, and test instrumentation. The core technology paradigms include normally-off structures, GaN-on-Si and GaN-on-SiC substrate routes, driver integration, half-bridge or system-level packaging, and reliability design for high-voltage and high-frequency use cases. Typical applications have expanded from smartphone and laptop fast chargers to data center and AI server power supplies, solar and energy storage systems, industrial motor drives, automotive OBC and DC-DC systems, 5G communications infrastructure, and civilian and defense radar. Major customers include consumer power brands, power module and inverter manufacturers, automotive Tier 1 suppliers, communications equipment vendors, and defense electronics system providers. Common delivery forms include standalone transistors and standard packaged devices, as well as integrated power stages, reference designs, and application solutions, while business models span IDM, fabless plus foundry, and platform-driven design-in strategies.

The GaN FET industry has entered a pivotal stage in which it is moving from technology

validation to large-scale adoption. Its significance is no longer limited to offering a new type of transistor with faster switching speed, but rather to enabling system-level upgrades in power conversion through higher efficiency, smaller size, and improved thermal management. Based on official product pages from leading suppliers, GaN devices have expanded from discrete power switches into power ICs and system-in-package solutions with integrated drive, protection, sensing, and half-bridge topologies, indicating that competition is shifting from device-parameter competition toward platform-capability competition. For customers, purchasing decisions are increasingly driven not only by on-resistance or voltage class, but by whether the device can accelerate design completion, reduce external component count, and improve end-system efficiency in adapters, server power supplies, industrial power systems, and automotive power applications. For that reason, suppliers with capabilities spanning devices, drivers, reference designs, and application support are more likely to secure design-in advantages. Over the next several years, GaN FETs are expected to continue evolving from standalone components into integrated power platforms, with product definitions becoming closer to complete system solutions than to isolated semiconductor devices.

From the demand perspective, GaN FETs have established a growth curve that is expanding outward from consumer electronics into higher-power applications. Fast chargers and adapters remain the most mature and scalable markets, where GaN's size and efficiency benefits are most visible, but official application pages and product roadmaps clearly show that data centers, AI server power supplies, industrial motor drives, solar and energy storage systems, and automotive electronics are becoming the next major growth engines. In particular, as AI server power architectures and 800 VDC distribution systems gain momentum, the advantages of high frequency, high efficiency, and high power density translate directly into better rack-space utilization, lower cooling cost, and improved system energy efficiency, which is redefining the value of GaN FETs in enterprise and infrastructure applications. At the same time, automotive adoption remains more cautious, but once GaN platforms achieve volume production in OBC, DC-DC, or high-voltage auxiliary systems, the value per vehicle and the stability of revenue over the product life cycle are likely to be meaningfully higher than in consumer markets. As a result, GaN FET growth is not only about increasing the number of end uses, but also about raising the value density of each project.

Changes on the supply side also indicate that the industry is moving from an emerging niche into a stage of structural competition. Global supply is currently concentrated in the United States, Europe, Japan, South Korea, and China, with a mix of traditional IDMs, specialized fabless companies, and foundry platforms, creating a distinctly multipolar value chain. At the same time, transactions such as Infineon's acquisition of

GaN Systems and Renesas' acquisition of Transphorm demonstrate that large power semiconductor companies no longer view GaN as a peripheral supplement, but rather as a core pillar of future high-growth power platforms. This consolidation should improve customer confidence in product reliability, delivery capability, and long-term support, while also accelerating the industry's transition from dispersed innovation toward greater concentration among leading players. It is also notable that Asian suppliers continue to strengthen productization and volume-production capabilities in high-voltage, low-voltage, bidirectional GaN, and RF GaN. This suggests that the future market is unlikely to be dominated by a single region, and is more likely to develop as a global industry structure in which power GaN and RF GaN advance in parallel, supported by both regional specialization and cross-border collaboration.

This report studies the global GaN FET production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GaN FET and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of GaN FET that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GaN FET total production and demand, 2021-2032, (Million Units)

Global GaN FET total production value, 2021-2032, (USD Million)

Global GaN FET production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global GaN FET consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: GaN FET domestic production, consumption, key domestic manufacturers and share

Global GaN FET production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global GaN FET production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global GaN FET production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global GaN FET market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a

part of this study include Nexperia B.V., Renesas Electronics Corporation, Texas Instruments Incorporated, Infineon Technologies AG, Toshiba Electronic Devices & Storage Corporation, Wolfspeed, Inc., Qorvo, Inc., Efficient Power Conversion Corporation, Ampleon Netherlands B.V., Cambridge GaN Devices Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World GaN FET market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global GaN FET Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GaN FET Market, Segmentation by Type:

Depletion Mode

Enhancement Mode

Global GaN FET Market, Segmentation by Rated Voltage Class:

≤100V

>100V To 650V

>650V

Global GaN FET Market, Segmentation by Delivery Form:

Bare Die

Packaged Discrete Device

Integrated Power IC

Global GaN FET Market, Segmentation by Application:

Automobile

Power Electronics

National Defense

Aerospace

LED

Photovoltaic

Other

Companies Profiled:

Nexperia B.V.

Renesas Electronics Corporation

Texas Instruments Incorporated

Infineon Technologies AG

Toshiba Electronic Devices & Storage Corporation

Wolfspeed, Inc.

Qorvo, Inc.

Efficient Power Conversion Corporation

Ampleon Netherlands B.V.

Cambridge GaN Devices Ltd.

GaNPower International Inc.

MACOM Technology Solutions Holdings, Inc.

Microchip Technology Inc.

Mitsubishi Electric Corporation

Navitas Semiconductor Corporation

NXP Semiconductors N.V.

Power Integrations, Inc.

RFHIC Corporation

ROHM Co., Ltd.

STMicroelectronics

Sumitomo Electric Industries, Ltd.

VisIC Technologies Ltd.

Wavice, Inc.

Innoscience (Suzhou) Technology Co., Ltd.

Suzhou Oriental Semiconductor Co., Ltd.

GaN Power Technology Co., Ltd.

Xiamen Sanan Integrated Circuit Co., Ltd.

Key Questions Answered:

1. How big is the global GaN FET market?
2. What is the demand of the global GaN FET market?
3. What is the year over year growth of the global GaN FET market?
4. What is the production and production value of the global GaN FET market?
5. Who are the key producers in the global GaN FET market?
6. What are the growth factors driving the market demand?

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