

Global GaN FET Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global GaN FET market size was valued at US\$ 239 million in 2025 and is forecast to a readjusted size of US\$ 584 million by 2032 with a CAGR of 14.0% during review period.

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 is a detailed and comprehensive analysis for global GaN FET market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global GaN FET market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN FET market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN FET market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN FET market shares of main players, shipments in revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for GaN FET

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global GaN FET market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

GaN FET market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Depletion Mode

Enhancement Mode

Market segment by Rated Voltage Class

≤100V

>100V To 650V

>650V

Market segment by Delivery Form

Bare Die

Packaged Discrete Device

Integrated Power IC

Market segment by Application

Automobile

Power Electronics

National Defense

Aerospace

LED

Photovoltaic

Other

Major players covered

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.

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 FET product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of GaN FET, with price, sales quantity, revenue, and global market share of GaN FET from 2021 to 2026.

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

Chapter 4, the GaN FET breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and GaN FET market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 FET.

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

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