

Global GaN Half-Bridge Driver 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 Half-Bridge Driver market size was valued at US\$ 535 million in 2025 and is forecast to a readjusted size of US\$ 1340 million by 2032 with a CAGR of 13.5% during review period.

A GaN half-bridge gate driver is an integrated circuit designed to drive the high-side and low-side GaN power switches in a half-bridge topology. It provides level shifting, bootstrap supply, regulated gate-drive voltage, high peak source and sink currents, dead-time control, interlocking, undervoltage lockout, high dv/dt immunity, and protection against false turn-on or gate overvoltage. The category also includes integrated GaN half-bridge power ICs that combine two GaN power transistors with gate drivers and protection functions in one package or monolithic IC.

GaN half-bridge gate drivers are a critical enabling component for high-frequency and high-efficiency power conversion systems using GaN power devices. They are designed to drive the high-side and low-side GaN switches in a half-bridge topology, providing level shifting, bootstrap supply, regulated gate-drive voltage, high peak source and sink current, dead-time control, interlocking, undervoltage protection, and high immunity to fast switching transients.

The value of GaN half-bridge drivers lies in making GaN power devices easier and safer to use in real products. GaN HEMTs can switch much faster than silicon MOSFETs, but they also have a narrow gate-voltage window, high sensitivity to layout parasitics, strong dv/dt stress, and higher risk of false turn-on. A dedicated GaN half-bridge driver helps control gate voltage, reduce ringing, manage dead time, improve noise immunity, and protect the device during high-speed switching.

The market includes both standalone GaN half-bridge driver ICs and integrated GaN half-bridge power ICs. Standalone drivers are used when designers want flexibility in selecting external GaN FETs, optimizing layout, and tuning switching behavior. Integrated GaN half-bridge power ICs combine two GaN power switches with drivers, bootstrap circuitry, sensing, and protection functions in one package or monolithic solution. This integration can reduce parasitic inductance, simplify PCB design, improve switching consistency, and shorten customer design cycles.

Demand is mainly driven by fast chargers, notebook adapters, server and AI data center power supplies, telecom power systems, industrial power supplies, 48V power architectures, motor drives, robotics, drones, Class-D audio, wireless power, solar micro-inverters, and emerging automotive power applications. Low-voltage GaN half-bridge drivers are especially relevant for 48V DC-DC converters, BLDC motors, robotics, and board-level power conversion. High-voltage 600V to 700V products are more relevant for LLC converters, asymmetric half-bridge converters, totem-pole PFC, offline AC-DC power supplies, and high-density industrial power systems.

The competitive landscape is led by established power IC and GaN ecosystem suppliers. Texas Instruments, onsemi, Analog Devices, and MPS have strong positions in standalone GaN half-bridge driver ICs. STMicroelectronics, Navitas, EPC, Infineon, and TI are more active in integrated GaN half-bridge power stages or GaN power ICs. Renesas and Skyworks participate through high-reliability or isolated driver solutions, while Innoscience, NOVOSENSE, and Southchip represent Chinese suppliers entering GaN driver and integrated GaN power IC markets.

Future competition will not be determined only by peak drive current. Key differentiators will include accurate gate-voltage regulation, negative turn-off capability, short propagation delay, low channel-to-channel delay mismatch, high common-mode transient immunity, high dv/dt robustness, programmable dead time, adjustable slew rate, false turn-on prevention, overtemperature protection, overcurrent protection, compact low-parasitic packaging, EMI control, and application reference design support.

Over the medium term, the market is expected to shift further from discrete driver-plus-FET designs toward more integrated GaN half-bridge power ICs, especially in high-volume consumer power, server power, and compact industrial power systems. However, standalone drivers will remain important in applications requiring flexible device selection, custom thermal design, high power scalability, or special reliability requirements. Suppliers that can combine GaN device expertise, driver IC design,

packaging, protection features, thermal design, EMI support, and system-level application know-how will be better positioned than vendors offering only generic half-bridge gate drivers.

This report is a detailed and comprehensive analysis for global GaN Half-Bridge Driver market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Bus Voltage Class 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 Half-Bridge Driver market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN Half-Bridge Driver 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 Half-Bridge Driver market size and forecasts, by Bus Voltage Class and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global GaN Half-Bridge Driver 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 Half-Bridge Driver

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 Half-Bridge Driver 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 Texas Instruments Incorporated, STMicroelectronics N.V., Navitas Semiconductor Corporation, Infineon Technologies AG, onsemi, Monolithic Power Systems, Inc., Analog Devices, Inc., Efficient Power Conversion Corporation, Renesas Electronics Corporation, Innoscience Technology, etc.

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

Market Segmentation

GaN Half-Bridge Driver market is split by Bus Voltage Class and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Bus Voltage Class, 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 Bus Voltage Class

Up to 80 V

81 V to 120 V

121 V to 250 V

251 V to 450 V

500 V to 700 V

Market segment by Key Driver Feature

Market segment by Power Topology

Market segment by Application

Chargers, Adapters and Consumer Power

Data Center and Telecom Power

Industrial Power Supplies

Motor Drives, Robotics and Power Tools

Automotive and EV Power Electronics

Solar, Energy Storage and Micro-inverters

Class-D Audio, Wireless Power and Pulsed Systems

Aerospace, Defense and Scientific Systems

Major players covered

Texas Instruments Incorporated

STMicroelectronics N.V.

Navitas Semiconductor Corporation

Infineon Technologies AG

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Monolithic Power Systems, Inc.

Analog Devices, Inc.

Efficient Power Conversion Corporation

Renesas Electronics Corporation

Innoscence Technology

uPI Semiconductor Corp.

Skyworks Solutions, Inc.

NOVOSENSE Microelectronics Co., Ltd.

Southchip Semiconductor Technology 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 Half-Bridge Driver product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the GaN Half-Bridge Driver 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 Bus Voltage Class and by Application, with sales market share and growth rate by Bus Voltage Class, 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 Half-Bridge Driver market forecast, by regions, by Bus Voltage Class, 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 Half-Bridge Driver.

Chapter 14 and 15, to describe GaN Half-Bridge Driver sales channel, distributors, customers, research findings and conclusion.

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