

Global GaN Half-Bridge Driver Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global GaN Half-Bridge Driver market size is expected to reach \$ 1340 million by 2032, rising at a market growth of 13.5% CAGR during the forecast period (2026-2032).

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 studies the global GaN Half-Bridge Driver production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GaN Half-Bridge Driver 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 Half-Bridge Driver that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GaN Half-Bridge Driver total production and demand, 2021-2032, (Million Units)

Global GaN Half-Bridge Driver total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: GaN Half-Bridge Driver domestic production, consumption, key domestic manufacturers and share

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

Global GaN Half-Bridge Driver production by Bus Voltage Class, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

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

This report profiles key players in the global GaN Half-Bridge Driver 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World GaN Half-Bridge Driver 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 Bus Voltage Class, 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 Half-Bridge Driver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GaN Half-Bridge Driver Market, Segmentation 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

Global GaN Half-Bridge Driver Market, Segmentation by Key Driver Feature:

Global GaN Half-Bridge Driver Market, Segmentation by Power Topology:

Global GaN Half-Bridge Driver Market, Segmentation 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

Companies Profiled:

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.

Key Questions Answered:

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

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