

Global High-Side MOSFET Gate 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 High-Side MOSFET Gate Driver market size was valued at US\$ 432 million in 2025 and is forecast to a readjusted size of US\$ 827 million by 2032 with a CAGR of 9.7% during review period.

High-Side MOSFET Gate Driver is an integrated circuit designed to drive high-side power MOSFETs, converting control signals into stable and precise gate-drive waveforms while integrating protection and diagnostic functions to enable efficient switching and reliable operation in automotive and industrial power systems. In 2025, production was about 323 million units and the average price was USD 1.3 per unit. The industry's capacity utilization rate in 2025 was about 65% and the average gross margin was around 50%, indicating that profitability under intensifying competition depends on deeper integration of protection features, stronger noise immunity, and platform-level reuse to reduce system losses, failure rates, and the overall cost of design-in and qualification. Upstream inputs mainly include silicon wafers and packaging substrates, with representative suppliers such as Shanghai Silicon Industry Group, Zhonghuan Advanced Semiconductor Materials, Shennan Circuits, and Fastprint Circuit Tech supporting material quality and packaging reliability. The midstream segment covers high-side level-shift and analog circuit design, bootstrap or charge-pump implementation, protection and diagnostics integration, layout and high-voltage robustness design, silicon verification, tapeout management, qualification planning, and volume test strategy, which together determine switching efficiency, electromagnetic compatibility, and lifetime reliability. Downstream applications are concentrated in automotive and industrial fields, with representative customers including BYD, SAIC Motor, Geely Auto, Inovance Technology, and Chint Electric, where suppliers capable of stable delivery and application support are more likely to sustain pricing resilience over

long-term cooperation.

The market outlook for High-Side MOSFET Gate Driver is shaped by the ongoing upgrade of power electronics architectures in automotive and industrial systems. As electrification deepens, designers are demanding higher efficiency, tighter control of switching behavior, and stronger protection against noise and transient stress, which elevates the functional importance of high-side gate drivers. While standardized products remain exposed to pricing pressure, differentiation is increasingly achieved through integrated protection, diagnostics, and design features that simplify system validation and reduce lifetime failure risk. Profitability over the medium term will depend on suppliers' ability to secure platform-level design wins, reuse qualified architectures across multiple applications, and support customers throughout long product lifecycles. Vendors that combine stable manufacturing, application expertise, and predictable delivery are better positioned to sustain margins as competition intensifies.

This report is a detailed and comprehensive analysis for global High-Side MOSFET Gate Driver 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 High-Side MOSFET Gate Driver market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Side MOSFET Gate 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 High-Side MOSFET Gate Driver 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 High-Side MOSFET Gate 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 High-Side MOSFET Gate 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 High-Side MOSFET Gate 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 STMicroelectronics, Infineon, Diodes Incorporated, ROHM, Renesas, Fuji Electric, Texas Instruments, Microchip, onsemi, Toshiba, etc.

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

Market Segmentation

High-Side MOSFET Gate Driver 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

Single Channel

Multi Channel

Market segment by Voltage

Below 20V

20-30V

Others

Market segment by Package

SOT-23 Package

SC70 Package

Others

Market segment by Application

Automotive

Industrial

Major players covered

STMicroelectronics

Infineon

Diodes Incorporated

ROHM

Renesas

Fuji Electric

Texas Instruments

Microchip

onsemi

Toshiba

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 High-Side MOSFET Gate Driver product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Side MOSFET Gate Driver, with price, sales quantity, revenue, and global market share of High-Side MOSFET Gate Driver from 2021 to 2026.

Chapter 3, the High-Side MOSFET Gate Driver competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-Side MOSFET Gate 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 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 High-Side MOSFET Gate Driver 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 High-Side MOSFET Gate Driver.

Chapter 14 and 15, to describe High-Side MOSFET Gate Driver sales channel, distributors, customers, research findings and conclusion.

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