

# Global High-Side MOSFET Driver Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global High-Side MOSFET Driver market size is expected to reach \$ 827 million by 2032, rising at a market growth of 9.7% CAGR during the forecast period (2026-2032). High-Side MOSFET Driver is an integrated circuit designed to drive high-side power MOSFETs, converting control signals into stable 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 in a competitive environment relies on deep integration of protection features, strong noise immunity, and platform-level reuse to reduce system losses, failure rates, and the total 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 sectors, where customers increasingly value stable supply, fast design cycles, and application support, allowing capable suppliers to maintain pricing discipline over long-term programs. The market outlook for High-Side MOSFET Driver reflects a steady move toward higher integration and tighter coupling with system-level power architectures. As automotive electrification deepens and industrial equipment shifts toward higher efficiency and intelligence, these devices are increasingly expected to deliver not only basic gate drive

capability but also protection, diagnostics, and robustness against noise and transient stress. Competition remains intense in standardized applications, putting pressure on pricing, yet value continues to migrate toward solutions that simplify system design, shorten validation cycles, and reduce field failure risk. Future profitability will be shaped by suppliers' ability to build scalable product platforms, reuse qualified designs across multiple programs, and support customers with application-level expertise. Companies that can translate technical reliability into long-term design wins are more likely to preserve margins as the market matures.

This report studies the global High-Side MOSFET Driver production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global High-Side MOSFET Driver total production and demand, 2021-2032, (Million Units)

Global High-Side MOSFET Driver total production value, 2021-2032, (USD Million)

Global High-Side MOSFET Driver production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global High-Side MOSFET Driver consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: High-Side MOSFET Driver domestic production, consumption, key domestic manufacturers and share

Global High-Side MOSFET Driver production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global High-Side MOSFET Driver production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global High-Side MOSFET Driver production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global High-Side MOSFET 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-Side MOSFET 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 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 High-Side MOSFET Driver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Side MOSFET Driver Market, Segmentation by Type:

Single Channel

Multi Channel

Global High-Side MOSFET Driver Market, Segmentation by Voltage:

Low-voltage Driver(below 20V)

Medium-voltage Driver(20-60V)

High-voltage Driver(above 60V)

Global High-Side MOSFET Driver Market, Segmentation by Package:

SOIC Package

TSSOP Package

Others

Global High-Side MOSFET Driver Market, Segmentation by Application:

Automotive

Industrial

**Companies Profiled:**

STMicroelectronics

Infineon

Diodes Incorporated

ROHM

Renesas

Fuji Electric

Texas Instruments

Microchip

onsemi

Toshiba

**Key Questions Answered:**

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

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