

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

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Abstracts

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global High-Side MOSFET Gate 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 Gate 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 Gate Driver Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Single Channel

Multi Channel

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

Below 20V

20-30V

Others

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

SOT-23 Package

SC70 Package

Others

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

Contents

1 SUPPLY SUMMARY

- 1.1 High-Side MOSFET Gate Driver Introduction
- 1.2 World High-Side MOSFET Gate Driver Supply & Forecast
 - 1.2.1 World High-Side MOSFET Gate Driver Production Value (2021 & 2025 & 2032)
 - 1.2.2 World High-Side MOSFET Gate Driver Production (2021-2032)
 - 1.2.3 World High-Side MOSFET Gate Driver Pricing Trends (2021-2032)
- 1.3 World High-Side MOSFET Gate Driver Production by Region (Based on Production Site)
 - 1.3.1 World High-Side MOSFET Gate Driver Production Value by Region (2021-2032)
 - 1.3.2 World High-Side MOSFET Gate Driver Production by Region (2021-2032)
 - 1.3.3 World High-Side MOSFET Gate Driver Average Price by Region (2021-2032)
 - 1.3.4 North America High-Side MOSFET Gate Driver Production (2021-2032)
 - 1.3.5 Europe High-Side MOSFET Gate Driver Production (2021-2032)
 - 1.3.6 China High-Side MOSFET Gate Driver Production (2021-2032)
 - 1.3.7 Japan High-Side MOSFET Gate Driver Production (2021-2032)
 - 1.3.8 South Korea High-Side MOSFET Gate Driver Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 High-Side MOSFET Gate Driver Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 High-Side MOSFET Gate Driver Major Market Trends

2 DEMAND SUMMARY

- 2.1 World High-Side MOSFET Gate Driver Demand (2021-2032)
- 2.2 World High-Side MOSFET Gate Driver Consumption by Region
 - 2.2.1 World High-Side MOSFET Gate Driver Consumption by Region (2021-2026)
 - 2.2.2 World High-Side MOSFET Gate Driver Consumption Forecast by Region (2027-2032)
- 2.3 United States High-Side MOSFET Gate Driver Consumption (2021-2032)
- 2.4 China High-Side MOSFET Gate Driver Consumption (2021-2032)
- 2.5 Europe High-Side MOSFET Gate Driver Consumption (2021-2032)
- 2.6 Japan High-Side MOSFET Gate Driver Consumption (2021-2032)
- 2.7 South Korea High-Side MOSFET Gate Driver Consumption (2021-2032)
- 2.8 ASEAN High-Side MOSFET Gate Driver Consumption (2021-2032)
- 2.9 India High-Side MOSFET Gate Driver Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World High-Side MOSFET Gate Driver Production Value by Manufacturer (2021-2026)
- 3.2 World High-Side MOSFET Gate Driver Production by Manufacturer (2021-2026)
- 3.3 World High-Side MOSFET Gate Driver Average Price by Manufacturer (2021-2026)
- 3.4 High-Side MOSFET Gate Driver Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global High-Side MOSFET Gate Driver Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for High-Side MOSFET Gate Driver in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for High-Side MOSFET Gate Driver in 2025
- 3.6 High-Side MOSFET Gate Driver Market: Overall Company Footprint Analysis
 - 3.6.1 High-Side MOSFET Gate Driver Market: Region Footprint
 - 3.6.2 High-Side MOSFET Gate Driver Market: Company Product Type Footprint
 - 3.6.3 High-Side MOSFET Gate Driver Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: High-Side MOSFET Gate Driver Production Value Comparison
 - 4.1.1 United States VS China: High-Side MOSFET Gate Driver Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: High-Side MOSFET Gate Driver Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: High-Side MOSFET Gate Driver Production Comparison
 - 4.2.1 United States VS China: High-Side MOSFET Gate Driver Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: High-Side MOSFET Gate Driver Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: High-Side MOSFET Gate Driver Consumption Comparison
 - 4.3.1 United States VS China: High-Side MOSFET Gate Driver Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: High-Side MOSFET Gate Driver Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High-Side MOSFET Gate Driver Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High-Side MOSFET Gate Driver Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High-Side MOSFET Gate Driver Production Value (2021-2026)

4.4.3 United States Based Manufacturers High-Side MOSFET Gate Driver Production (2021-2026)

4.5 China Based High-Side MOSFET Gate Driver Manufacturers and Market Share

4.5.1 China Based High-Side MOSFET Gate Driver Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High-Side MOSFET Gate Driver Production Value (2021-2026)

4.5.3 China Based Manufacturers High-Side MOSFET Gate Driver Production (2021-2026)

4.6 Rest of World Based High-Side MOSFET Gate Driver Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High-Side MOSFET Gate Driver Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High-Side MOSFET Gate Driver Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High-Side MOSFET Gate Driver Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High-Side MOSFET Gate Driver Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Single Channel

5.2.2 Multi Channel

5.3 Market Segment by Type

5.3.1 World High-Side MOSFET Gate Driver Production by Type (2021-2032)

5.3.2 World High-Side MOSFET Gate Driver Production Value by Type (2021-2032)

5.3.3 World High-Side MOSFET Gate Driver Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VOLTAGE

6.1 World High-Side MOSFET Gate Driver Market Size Overview by Voltage: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Voltage

6.2.1 Below 20V

6.2.2 20-30V

6.2.3 Others

6.3 Market Segment by Voltage

6.3.1 World High-Side MOSFET Gate Driver Production by Voltage (2021-2032)

6.3.2 World High-Side MOSFET Gate Driver Production Value by Voltage (2021-2032)

6.3.3 World High-Side MOSFET Gate Driver Average Price by Voltage (2021-2032)

7 MARKET ANALYSIS BY PACKAGE

7.1 World High-Side MOSFET Gate Driver Market Size Overview by Package: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Package

7.2.1 SOT-23 Package

7.2.2 SC70 Package

7.2.3 Others

7.3 Market Segment by Package

7.3.1 World High-Side MOSFET Gate Driver Production by Package (2021-2032)

7.3.2 World High-Side MOSFET Gate Driver Production Value by Package (2021-2032)

7.3.3 World High-Side MOSFET Gate Driver Average Price by Package (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World High-Side MOSFET Gate Driver Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automotive

8.2.2 Industrial

8.3 Market Segment by Application

8.3.1 World High-Side MOSFET Gate Driver Production by Application (2021-2032)

8.3.2 World High-Side MOSFET Gate Driver Production Value by Application (2021-2032)

8.3.3 World High-Side MOSFET Gate Driver Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 STMicroelectronics

9.1.1 STMicroelectronics Details

9.1.2 STMicroelectronics Major Business

9.1.3 STMicroelectronics High-Side MOSFET Gate Driver Product and Services

9.1.4 STMicroelectronics High-Side MOSFET Gate Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 STMicroelectronics Recent Developments/Updates

9.1.6 STMicroelectronics Competitive Strengths & Weaknesses

9.2 Infineon

9.2.1 Infineon Details

9.2.2 Infineon Major Business

9.2.3 Infineon High-Side MOSFET Gate Driver Product and Services

9.2.4 Infineon High-Side MOSFET Gate Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Infineon Recent Developments/Updates

9.2.6 Infineon Competitive Strengths & Weaknesses

9.3 Diodes Incorporated

9.3.1 Diodes Incorporated Details

9.3.2 Diodes Incorporated Major Business

9.3.3 Diodes Incorporated High-Side MOSFET Gate Driver Product and Services

9.3.4 Diodes Incorporated High-Side MOSFET Gate Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Diodes Incorporated Recent Developments/Updates

9.3.6 Diodes Incorporated Competitive Strengths & Weaknesses

9.4 ROHM

9.4.1 ROHM Details

9.4.2 ROHM Major Business

9.4.3 ROHM High-Side MOSFET Gate Driver Product and Services

9.4.4 ROHM High-Side MOSFET Gate Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 ROHM Recent Developments/Updates

9.4.6 ROHM Competitive Strengths & Weaknesses

9.5 Renesas

9.5.1 Renesas Details

9.5.2 Renesas Major Business

9.5.3 Renesas High-Side MOSFET Gate Driver Product and Services

9.5.4 Renesas High-Side MOSFET Gate Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.5.5 Renesas Recent Developments/Updates
- 9.5.6 Renesas Competitive Strengths & Weaknesses
- 9.6 Fuji Electric
 - 9.6.1 Fuji Electric Details
 - 9.6.2 Fuji Electric Major Business
 - 9.6.3 Fuji Electric High-Side MOSFET Gate Driver Product and Services
 - 9.6.4 Fuji Electric High-Side MOSFET Gate Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Fuji Electric Recent Developments/Updates
 - 9.6.6 Fuji Electric Competitive Strengths & Weaknesses
- 9.7 Texas Instruments
 - 9.7.1 Texas Instruments Details
 - 9.7.2 Texas Instruments Major Business
 - 9.7.3 Texas Instruments High-Side MOSFET Gate Driver Product and Services
 - 9.7.4 Texas Instruments High-Side MOSFET Gate Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Texas Instruments Recent Developments/Updates
 - 9.7.6 Texas Instruments Competitive Strengths & Weaknesses
- 9.8 Microchip
 - 9.8.1 Microchip Details
 - 9.8.2 Microchip Major Business
 - 9.8.3 Microchip High-Side MOSFET Gate Driver Product and Services
 - 9.8.4 Microchip High-Side MOSFET Gate Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Microchip Recent Developments/Updates
 - 9.8.6 Microchip Competitive Strengths & Weaknesses
- 9.9 onsemi
 - 9.9.1 onsemi Details
 - 9.9.2 onsemi Major Business
 - 9.9.3 onsemi High-Side MOSFET Gate Driver Product and Services
 - 9.9.4 onsemi High-Side MOSFET Gate Driver Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 onsemi Recent Developments/Updates
 - 9.9.6 onsemi Competitive Strengths & Weaknesses
- 9.10 Toshiba
 - 9.10.1 Toshiba Details
 - 9.10.2 Toshiba Major Business
 - 9.10.3 Toshiba High-Side MOSFET Gate Driver Product and Services
 - 9.10.4 Toshiba High-Side MOSFET Gate Driver Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.10.5 Toshiba Recent Developments/Updates

9.10.6 Toshiba Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 High-Side MOSFET Gate Driver Industry Chain

10.2 High-Side MOSFET Gate Driver Upstream Analysis

10.2.1 High-Side MOSFET Gate Driver Core Raw Materials

10.2.2 Main Manufacturers of High-Side MOSFET Gate Driver Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 High-Side MOSFET Gate Driver Production Mode

10.6 High-Side MOSFET Gate Driver Procurement Model

10.7 High-Side MOSFET Gate Driver Industry Sales Model and Sales Channels

10.7.1 High-Side MOSFET Gate Driver Sales Model

10.7.2 High-Side MOSFET Gate Driver Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High-Side MOSFET Gate Driver Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High-Side MOSFET Gate Driver Production Value by Region (2021-2026) & (USD Million)

Table 3. World High-Side MOSFET Gate Driver Production Value by Region (2027-2032) & (USD Million)

Table 4. World High-Side MOSFET Gate Driver Production Value Market Share by Region (2021-2026)

Table 5. World High-Side MOSFET Gate Driver Production Value Market Share by Region (2027-2032)

Table 6. World High-Side MOSFET Gate Driver Production by Region (2021-2026) & (Million Units)

Table 7. World High-Side MOSFET Gate Driver Production by Region (2027-2032) & (Million Units)

Table 8. World High-Side MOSFET Gate Driver Production Market Share by Region (2021-2026)

Table 9. World High-Side MOSFET Gate Driver Production Market Share by Region (2027-2032)

Table 10. World High-Side MOSFET Gate Driver Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World High-Side MOSFET Gate Driver Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. High-Side MOSFET Gate Driver Major Market Trends

Table 13. World High-Side MOSFET Gate Driver Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World High-Side MOSFET Gate Driver Consumption by Region (2021-2026) & (Million Units)

Table 15. World High-Side MOSFET Gate Driver Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World High-Side MOSFET Gate Driver Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High-Side MOSFET Gate Driver Producers in 2025

Table 18. World High-Side MOSFET Gate Driver Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key High-Side MOSFET Gate Driver Producers in 2025

Table 20. World High-Side MOSFET Gate Driver Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global High-Side MOSFET Gate Driver Company Evaluation Quadrant

Table 22. World High-Side MOSFET Gate Driver Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High-Side MOSFET Gate Driver Production Site of Key Manufacturer

Table 24. High-Side MOSFET Gate Driver Market: Company Product Type Footprint

Table 25. High-Side MOSFET Gate Driver Market: Company Product Application Footprint

Table 26. High-Side MOSFET Gate Driver Competitive Factors

Table 27. High-Side MOSFET Gate Driver New Entrant and Capacity Expansion Plans

Table 28. High-Side MOSFET Gate Driver Mergers & Acquisitions Activity

Table 29. United States VS China High-Side MOSFET Gate Driver Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High-Side MOSFET Gate Driver Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China High-Side MOSFET Gate Driver Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based High-Side MOSFET Gate Driver Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High-Side MOSFET Gate Driver Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High-Side MOSFET Gate Driver Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High-Side MOSFET Gate Driver Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers High-Side MOSFET Gate Driver Production Market Share (2021-2026)

Table 37. China Based High-Side MOSFET Gate Driver Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High-Side MOSFET Gate Driver Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High-Side MOSFET Gate Driver Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High-Side MOSFET Gate Driver Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers High-Side MOSFET Gate Driver Production Market Share (2021-2026)

Table 42. Rest of World Based High-Side MOSFET Gate Driver Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High-Side MOSFET Gate Driver Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High-Side MOSFET Gate Driver Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High-Side MOSFET Gate Driver Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers High-Side MOSFET Gate Driver Production Market Share (2021-2026)

Table 47. World High-Side MOSFET Gate Driver Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High-Side MOSFET Gate Driver Production by Type (2021-2026) & (Million Units)

Table 49. World High-Side MOSFET Gate Driver Production by Type (2027-2032) & (Million Units)

Table 50. World High-Side MOSFET Gate Driver Production Value by Type (2021-2026) & (USD Million)

Table 51. World High-Side MOSFET Gate Driver Production Value by Type (2027-2032) & (USD Million)

Table 52. World High-Side MOSFET Gate Driver Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World High-Side MOSFET Gate Driver Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World High-Side MOSFET Gate Driver Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 55. World High-Side MOSFET Gate Driver Production by Voltage (2021-2026) & (Million Units)

Table 56. World High-Side MOSFET Gate Driver Production by Voltage (2027-2032) & (Million Units)

Table 57. World High-Side MOSFET Gate Driver Production Value by Voltage (2021-2026) & (USD Million)

Table 58. World High-Side MOSFET Gate Driver Production Value by Voltage (2027-2032) & (USD Million)

Table 59. World High-Side MOSFET Gate Driver Average Price by Voltage (2021-2026) & (US\$/Unit)

Table 60. World High-Side MOSFET Gate Driver Average Price by Voltage (2027-2032)

& (US\$/Unit)

Table 61. World High-Side MOSFET Gate Driver Production Value by Package, (USD Million), 2021 & 2025 & 2032

Table 62. World High-Side MOSFET Gate Driver Production by Package (2021-2026) & (Million Units)

Table 63. World High-Side MOSFET Gate Driver Production by Package (2027-2032) & (Million Units)

Table 64. World High-Side MOSFET Gate Driver Production Value by Package (2021-2026) & (USD Million)

Table 65. World High-Side MOSFET Gate Driver Production Value by Package (2027-2032) & (USD Million)

Table 66. World High-Side MOSFET Gate Driver Average Price by Package (2021-2026) & (US\$/Unit)

Table 67. World High-Side MOSFET Gate Driver Average Price by Package (2027-2032) & (US\$/Unit)

Table 68. World High-Side MOSFET Gate Driver Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High-Side MOSFET Gate Driver Production by Application (2021-2026) & (Million Units)

Table 70. World High-Side MOSFET Gate Driver Production by Application (2027-2032) & (Million Units)

Table 71. World High-Side MOSFET Gate Driver Production Value by Application (2021-2026) & (USD Million)

Table 72. World High-Side MOSFET Gate Driver Production Value by Application (2027-2032) & (USD Million)

Table 73. World High-Side MOSFET Gate Driver Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World High-Side MOSFET Gate Driver Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 76. STMicroelectronics Major Business

Table 77. STMicroelectronics High-Side MOSFET Gate Driver Product and Services

Table 78. STMicroelectronics High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. STMicroelectronics Recent Developments/Updates

Table 80. STMicroelectronics Competitive Strengths & Weaknesses

Table 81. Infineon Basic Information, Manufacturing Base and Competitors

Table 82. Infineon Major Business

- Table 83. Infineon High-Side MOSFET Gate Driver Product and Services
- Table 84. Infineon High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Infineon Recent Developments/Updates
- Table 86. Infineon Competitive Strengths & Weaknesses
- Table 87. Diodes Incorporated Basic Information, Manufacturing Base and Competitors
- Table 88. Diodes Incorporated Major Business
- Table 89. Diodes Incorporated High-Side MOSFET Gate Driver Product and Services
- Table 90. Diodes Incorporated High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Diodes Incorporated Recent Developments/Updates
- Table 92. Diodes Incorporated Competitive Strengths & Weaknesses
- Table 93. ROHM Basic Information, Manufacturing Base and Competitors
- Table 94. ROHM Major Business
- Table 95. ROHM High-Side MOSFET Gate Driver Product and Services
- Table 96. ROHM High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. ROHM Recent Developments/Updates
- Table 98. ROHM Competitive Strengths & Weaknesses
- Table 99. Renesas Basic Information, Manufacturing Base and Competitors
- Table 100. Renesas Major Business
- Table 101. Renesas High-Side MOSFET Gate Driver Product and Services
- Table 102. Renesas High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Renesas Recent Developments/Updates
- Table 104. Renesas Competitive Strengths & Weaknesses
- Table 105. Fuji Electric Basic Information, Manufacturing Base and Competitors
- Table 106. Fuji Electric Major Business
- Table 107. Fuji Electric High-Side MOSFET Gate Driver Product and Services
- Table 108. Fuji Electric High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Fuji Electric Recent Developments/Updates
- Table 110. Fuji Electric Competitive Strengths & Weaknesses
- Table 111. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 112. Texas Instruments Major Business

Table 113. Texas Instruments High-Side MOSFET Gate Driver Product and Services

Table 114. Texas Instruments High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Texas Instruments Recent Developments/Updates

Table 116. Texas Instruments Competitive Strengths & Weaknesses

Table 117. Microchip Basic Information, Manufacturing Base and Competitors

Table 118. Microchip Major Business

Table 119. Microchip High-Side MOSFET Gate Driver Product and Services

Table 120. Microchip High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Microchip Recent Developments/Updates

Table 122. Microchip Competitive Strengths & Weaknesses

Table 123. onsemi Basic Information, Manufacturing Base and Competitors

Table 124. onsemi Major Business

Table 125. onsemi High-Side MOSFET Gate Driver Product and Services

Table 126. onsemi High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. onsemi Recent Developments/Updates

Table 128. onsemi Competitive Strengths & Weaknesses

Table 129. Toshiba Basic Information, Manufacturing Base and Competitors

Table 130. Toshiba Major Business

Table 131. Toshiba High-Side MOSFET Gate Driver Product and Services

Table 132. Toshiba High-Side MOSFET Gate Driver Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Toshiba Recent Developments/Updates

Table 134. Toshiba Competitive Strengths & Weaknesses

Table 135. Global Key Players of High-Side MOSFET Gate Driver Upstream (Raw Materials)

Table 136. Global High-Side MOSFET Gate Driver Typical Customers

Table 137. High-Side MOSFET Gate Driver Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High-Side MOSFET Gate Driver Picture

Figure 2. World High-Side MOSFET Gate Driver Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High-Side MOSFET Gate Driver Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High-Side MOSFET Gate Driver Production (2021-2032) & (Million Units)

Figure 5. World High-Side MOSFET Gate Driver Average Price (2021-2032) & (US\$/Unit)

Figure 6. World High-Side MOSFET Gate Driver Production Value Market Share by Region (2021-2032)

Figure 7. World High-Side MOSFET Gate Driver Production Market Share by Region (2021-2032)

Figure 8. North America High-Side MOSFET Gate Driver Production (2021-2032) & (Million Units)

Figure 9. Europe High-Side MOSFET Gate Driver Production (2021-2032) & (Million Units)

Figure 10. China High-Side MOSFET Gate Driver Production (2021-2032) & (Million Units)

Figure 11. Japan High-Side MOSFET Gate Driver Production (2021-2032) & (Million Units)

Figure 12. South Korea High-Side MOSFET Gate Driver Production (2021-2032) & (Million Units)

Figure 13. High-Side MOSFET Gate Driver Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World High-Side MOSFET Gate Driver Consumption (2021-2032) & (Million Units)

Figure 16. World High-Side MOSFET Gate Driver Consumption Market Share by Region (2021-2032)

Figure 17. United States High-Side MOSFET Gate Driver Consumption (2021-2032) & (Million Units)

Figure 18. China High-Side MOSFET Gate Driver Consumption (2021-2032) & (Million Units)

Figure 19. Europe High-Side MOSFET Gate Driver Consumption (2021-2032) & (Million Units)

Figure 20. Japan High-Side MOSFET Gate Driver Consumption (2021-2032) & (Million Units)

Figure 21. South Korea High-Side MOSFET Gate Driver Consumption (2021-2032) & (Million Units)

Figure 22. ASEAN High-Side MOSFET Gate Driver Consumption (2021-2032) & (Million Units)

Figure 23. India High-Side MOSFET Gate Driver Consumption (2021-2032) & (Million Units)

Figure 24. Producer Shipments of High-Side MOSFET Gate Driver by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for High-Side MOSFET Gate Driver Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for High-Side MOSFET Gate Driver Markets in 2025

Figure 27. United States VS China: High-Side MOSFET Gate Driver Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High-Side MOSFET Gate Driver Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: High-Side MOSFET Gate Driver Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers High-Side MOSFET Gate Driver Production Market Share 2025

Figure 31. China Based Manufacturers High-Side MOSFET Gate Driver Production Market Share 2025

Figure 32. Rest of World Based Manufacturers High-Side MOSFET Gate Driver Production Market Share 2025

Figure 33. World High-Side MOSFET Gate Driver Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World High-Side MOSFET Gate Driver Production Value Market Share by Type in 2025

Figure 35. Single Channel

Figure 36. Multi Channel

Figure 37. World High-Side MOSFET Gate Driver Production Market Share by Type (2021-2032)

Figure 38. World High-Side MOSFET Gate Driver Production Value Market Share by Type (2021-2032)

Figure 39. World High-Side MOSFET Gate Driver Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World High-Side MOSFET Gate Driver Production Value by Voltage, (USD

Million), 2021 & 2025 & 2032

Figure 41. World High-Side MOSFET Gate Driver Production Value Market Share by Voltage in 2025

Figure 42. Below 20V

Figure 43. 20-30V

Figure 44. Others

Figure 45. World High-Side MOSFET Gate Driver Production Market Share by Voltage (2021-2032)

Figure 46. World High-Side MOSFET Gate Driver Production Value Market Share by Voltage (2021-2032)

Figure 47. World High-Side MOSFET Gate Driver Average Price by Voltage (2021-2032) & (US\$/Unit)

Figure 48. World High-Side MOSFET Gate Driver Production Value by Package, (USD Million), 2021 & 2025 & 2032

Figure 49. World High-Side MOSFET Gate Driver Production Value Market Share by Package in 2025

Figure 50. SOT-23 Package

Figure 51. SC70 Package

Figure 52. Others

Figure 53. World High-Side MOSFET Gate Driver Production Market Share by Package (2021-2032)

Figure 54. World High-Side MOSFET Gate Driver Production Value Market Share by Package (2021-2032)

Figure 55. World High-Side MOSFET Gate Driver Average Price by Package (2021-2032) & (US\$/Unit)

Figure 56. World High-Side MOSFET Gate Driver Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World High-Side MOSFET Gate Driver Production Value Market Share by Application in 2025

Figure 58. Automotive

Figure 59. Industrial

Figure 60. World High-Side MOSFET Gate Driver Production Market Share by Application (2021-2032)

Figure 61. World High-Side MOSFET Gate Driver Production Value Market Share by Application (2021-2032)

Figure 62. World High-Side MOSFET Gate Driver Average Price by Application (2021-2032) & (US\$/Unit)

Figure 63. High-Side MOSFET Gate Driver Industry Chain

Figure 64. High-Side MOSFET Gate Driver Procurement Model

Figure 65. High-Side MOSFET Gate Driver Sales Model

Figure 66. High-Side MOSFET Gate Driver Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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