

Global High-Side MOSFET 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 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 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 is a detailed and comprehensive analysis for global High-Side MOSFET 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 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 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 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 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 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 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 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

Low-voltage Driver(below 20V)

Medium-voltage Driver(20-60V)

High-voltage Driver(above 60V)

Market segment by Package

SOIC Package

TSSOP 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 Driver product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the High-Side MOSFET 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 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 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 Driver.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global High-Side MOSFET Driver Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Single Channel

1.3.3 Multi Channel

1.4 Market Analysis by Voltage

1.4.1 Overview: Global High-Side MOSFET Driver Consumption Value by Voltage: 2021 Versus 2025 Versus 2032

1.4.2 Low-voltage Driver(below 20V)

1.4.3 Medium-voltage Driver(20-60V)

1.4.4 High-voltage Driver(above 60V)

1.5 Market Analysis by Package

1.5.1 Overview: Global High-Side MOSFET Driver Consumption Value by Package: 2021 Versus 2025 Versus 2032

1.5.2 SOIC Package

1.5.3 TSSOP Package

1.5.4 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global High-Side MOSFET Driver Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Automotive

1.6.3 Industrial

1.7 Global High-Side MOSFET Driver Market Size & Forecast

1.7.1 Global High-Side MOSFET Driver Consumption Value (2021 & 2025 & 2032)

1.7.2 Global High-Side MOSFET Driver Sales Quantity (2021-2032)

1.7.3 Global High-Side MOSFET Driver Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 STMicroelectronics

2.1.1 STMicroelectronics Details

2.1.2 STMicroelectronics Major Business

2.1.3 STMicroelectronics High-Side MOSFET Driver Product and Services

2.1.4 STMicroelectronics High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 STMicroelectronics Recent Developments/Updates

2.2 Infineon

2.2.1 Infineon Details

2.2.2 Infineon Major Business

2.2.3 Infineon High-Side MOSFET Driver Product and Services

2.2.4 Infineon High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Infineon Recent Developments/Updates

2.3 Diodes Incorporated

2.3.1 Diodes Incorporated Details

2.3.2 Diodes Incorporated Major Business

2.3.3 Diodes Incorporated High-Side MOSFET Driver Product and Services

2.3.4 Diodes Incorporated High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Diodes Incorporated Recent Developments/Updates

2.4 ROHM

2.4.1 ROHM Details

2.4.2 ROHM Major Business

2.4.3 ROHM High-Side MOSFET Driver Product and Services

2.4.4 ROHM High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 ROHM Recent Developments/Updates

2.5 Renesas

2.5.1 Renesas Details

2.5.2 Renesas Major Business

2.5.3 Renesas High-Side MOSFET Driver Product and Services

2.5.4 Renesas High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Renesas Recent Developments/Updates

2.6 Fuji Electric

2.6.1 Fuji Electric Details

2.6.2 Fuji Electric Major Business

2.6.3 Fuji Electric High-Side MOSFET Driver Product and Services

2.6.4 Fuji Electric High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Fuji Electric Recent Developments/Updates

2.7 Texas Instruments

- 2.7.1 Texas Instruments Details
- 2.7.2 Texas Instruments Major Business
- 2.7.3 Texas Instruments High-Side MOSFET Driver Product and Services
- 2.7.4 Texas Instruments High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Texas Instruments Recent Developments/Updates
- 2.8 Microchip
 - 2.8.1 Microchip Details
 - 2.8.2 Microchip Major Business
 - 2.8.3 Microchip High-Side MOSFET Driver Product and Services
 - 2.8.4 Microchip High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Microchip Recent Developments/Updates
- 2.9 onsemi
 - 2.9.1 onsemi Details
 - 2.9.2 onsemi Major Business
 - 2.9.3 onsemi High-Side MOSFET Driver Product and Services
 - 2.9.4 onsemi High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 onsemi Recent Developments/Updates
- 2.10 Toshiba
 - 2.10.1 Toshiba Details
 - 2.10.2 Toshiba Major Business
 - 2.10.3 Toshiba High-Side MOSFET Driver Product and Services
 - 2.10.4 Toshiba High-Side MOSFET Driver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.10.5 Toshiba Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HIGH-SIDE MOSFET DRIVER BY MANUFACTURER

- 3.1 Global High-Side MOSFET Driver Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global High-Side MOSFET Driver Revenue by Manufacturer (2021-2026)
- 3.3 Global High-Side MOSFET Driver Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of High-Side MOSFET Driver by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 High-Side MOSFET Driver Manufacturer Market Share in 2025
 - 3.4.3 Top 6 High-Side MOSFET Driver Manufacturer Market Share in 2025

- 3.5 High-Side MOSFET Driver Market: Overall Company Footprint Analysis
 - 3.5.1 High-Side MOSFET Driver Market: Region Footprint
 - 3.5.2 High-Side MOSFET Driver Market: Company Product Type Footprint
 - 3.5.3 High-Side MOSFET Driver Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global High-Side MOSFET Driver Market Size by Region
 - 4.1.1 Global High-Side MOSFET Driver Sales Quantity by Region (2021-2032)
 - 4.1.2 Global High-Side MOSFET Driver Consumption Value by Region (2021-2032)
 - 4.1.3 Global High-Side MOSFET Driver Average Price by Region (2021-2032)
- 4.2 North America High-Side MOSFET Driver Consumption Value (2021-2032)
- 4.3 Europe High-Side MOSFET Driver Consumption Value (2021-2032)
- 4.4 Asia-Pacific High-Side MOSFET Driver Consumption Value (2021-2032)
- 4.5 South America High-Side MOSFET Driver Consumption Value (2021-2032)
- 4.6 Middle East & Africa High-Side MOSFET Driver Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

- 5.1 Global High-Side MOSFET Driver Sales Quantity by Type (2021-2032)
- 5.2 Global High-Side MOSFET Driver Consumption Value by Type (2021-2032)
- 5.3 Global High-Side MOSFET Driver Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global High-Side MOSFET Driver Sales Quantity by Application (2021-2032)
- 6.2 Global High-Side MOSFET Driver Consumption Value by Application (2021-2032)
- 6.3 Global High-Side MOSFET Driver Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America High-Side MOSFET Driver Sales Quantity by Type (2021-2032)
- 7.2 North America High-Side MOSFET Driver Sales Quantity by Application (2021-2032)
- 7.3 North America High-Side MOSFET Driver Market Size by Country
 - 7.3.1 North America High-Side MOSFET Driver Sales Quantity by Country (2021-2032)

7.3.2 North America High-Side MOSFET Driver Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe High-Side MOSFET Driver Sales Quantity by Type (2021-2032)

8.2 Europe High-Side MOSFET Driver Sales Quantity by Application (2021-2032)

8.3 Europe High-Side MOSFET Driver Market Size by Country

8.3.1 Europe High-Side MOSFET Driver Sales Quantity by Country (2021-2032)

8.3.2 Europe High-Side MOSFET Driver Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific High-Side MOSFET Driver Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific High-Side MOSFET Driver Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific High-Side MOSFET Driver Market Size by Region

9.3.1 Asia-Pacific High-Side MOSFET Driver Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific High-Side MOSFET Driver Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America High-Side MOSFET Driver Sales Quantity by Type (2021-2032)

10.2 South America High-Side MOSFET Driver Sales Quantity by Application (2021-2032)

10.3 South America High-Side MOSFET Driver Market Size by Country

10.3.1 South America High-Side MOSFET Driver Sales Quantity by Country
(2021-2032)

10.3.2 South America High-Side MOSFET Driver Consumption Value by Country
(2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa High-Side MOSFET Driver Sales Quantity by Type
(2021-2032)

11.2 Middle East & Africa High-Side MOSFET Driver Sales Quantity by Application
(2021-2032)

11.3 Middle East & Africa High-Side MOSFET Driver Market Size by Country

11.3.1 Middle East & Africa High-Side MOSFET Driver Sales Quantity by Country
(2021-2032)

11.3.2 Middle East & Africa High-Side MOSFET Driver Consumption Value by Country
(2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 High-Side MOSFET Driver Market Drivers

12.2 High-Side MOSFET Driver Market Restraints

12.3 High-Side MOSFET Driver Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of High-Side MOSFET Driver and Key Manufacturers

- 13.2 Manufacturing Costs Percentage of High-Side MOSFET Driver
- 13.3 High-Side MOSFET Driver Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 High-Side MOSFET Driver Typical Distributors
- 14.3 High-Side MOSFET Driver Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global High-Side MOSFET Driver Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global High-Side MOSFET Driver Consumption Value by Voltage, (USD Million), 2021 & 2025 & 2032
- Table 3. Global High-Side MOSFET Driver Consumption Value by Package, (USD Million), 2021 & 2025 & 2032
- Table 4. Global High-Side MOSFET Driver Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. STMicroelectronics Basic Information, Manufacturing Base and Competitors
- Table 6. STMicroelectronics Major Business
- Table 7. STMicroelectronics High-Side MOSFET Driver Product and Services
- Table 8. STMicroelectronics High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. STMicroelectronics Recent Developments/Updates
- Table 10. Infineon Basic Information, Manufacturing Base and Competitors
- Table 11. Infineon Major Business
- Table 12. Infineon High-Side MOSFET Driver Product and Services
- Table 13. Infineon High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Infineon Recent Developments/Updates
- Table 15. Diodes Incorporated Basic Information, Manufacturing Base and Competitors
- Table 16. Diodes Incorporated Major Business
- Table 17. Diodes Incorporated High-Side MOSFET Driver Product and Services
- Table 18. Diodes Incorporated High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Diodes Incorporated Recent Developments/Updates
- Table 20. ROHM Basic Information, Manufacturing Base and Competitors
- Table 21. ROHM Major Business
- Table 22. ROHM High-Side MOSFET Driver Product and Services
- Table 23. ROHM High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. ROHM Recent Developments/Updates
- Table 25. Renesas Basic Information, Manufacturing Base and Competitors

Table 26. Renesas Major Business

Table 27. Renesas High-Side MOSFET Driver Product and Services

Table 28. Renesas High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Renesas Recent Developments/Updates

Table 30. Fuji Electric Basic Information, Manufacturing Base and Competitors

Table 31. Fuji Electric Major Business

Table 32. Fuji Electric High-Side MOSFET Driver Product and Services

Table 33. Fuji Electric High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Fuji Electric Recent Developments/Updates

Table 35. Texas Instruments Basic Information, Manufacturing Base and Competitors

Table 36. Texas Instruments Major Business

Table 37. Texas Instruments High-Side MOSFET Driver Product and Services

Table 38. Texas Instruments High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Texas Instruments Recent Developments/Updates

Table 40. Microchip Basic Information, Manufacturing Base and Competitors

Table 41. Microchip Major Business

Table 42. Microchip High-Side MOSFET Driver Product and Services

Table 43. Microchip High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Microchip Recent Developments/Updates

Table 45. onsemi Basic Information, Manufacturing Base and Competitors

Table 46. onsemi Major Business

Table 47. onsemi High-Side MOSFET Driver Product and Services

Table 48. onsemi High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. onsemi Recent Developments/Updates

Table 50. Toshiba Basic Information, Manufacturing Base and Competitors

Table 51. Toshiba Major Business

Table 52. Toshiba High-Side MOSFET Driver Product and Services

Table 53. Toshiba High-Side MOSFET Driver Sales Quantity (Million Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Toshiba Recent Developments/Updates

Table 55. Global High-Side MOSFET Driver Sales Quantity by Manufacturer (2021-2026) & (Million Units)

Table 56. Global High-Side MOSFET Driver Revenue by Manufacturer (2021-2026) & (USD Million)

Table 57. Global High-Side MOSFET Driver Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 58. Market Position of Manufacturers in High-Side MOSFET Driver, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 59. Head Office and High-Side MOSFET Driver Production Site of Key Manufacturer

Table 60. High-Side MOSFET Driver Market: Company Product Type Footprint

Table 61. High-Side MOSFET Driver Market: Company Product Application Footprint

Table 62. High-Side MOSFET Driver New Market Entrants and Barriers to Market Entry

Table 63. High-Side MOSFET Driver Mergers, Acquisition, Agreements, and Collaborations

Table 64. Global High-Side MOSFET Driver Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 65. Global High-Side MOSFET Driver Sales Quantity by Region (2021-2026) & (Million Units)

Table 66. Global High-Side MOSFET Driver Sales Quantity by Region (2027-2032) & (Million Units)

Table 67. Global High-Side MOSFET Driver Consumption Value by Region (2021-2026) & (USD Million)

Table 68. Global High-Side MOSFET Driver Consumption Value by Region (2027-2032) & (USD Million)

Table 69. Global High-Side MOSFET Driver Average Price by Region (2021-2026) & (US\$/Unit)

Table 70. Global High-Side MOSFET Driver Average Price by Region (2027-2032) & (US\$/Unit)

Table 71. Global High-Side MOSFET Driver Sales Quantity by Type (2021-2026) & (Million Units)

Table 72. Global High-Side MOSFET Driver Sales Quantity by Type (2027-2032) & (Million Units)

Table 73. Global High-Side MOSFET Driver Consumption Value by Type (2021-2026) & (USD Million)

Table 74. Global High-Side MOSFET Driver Consumption Value by Type (2027-2032) & (USD Million)

Table 75. Global High-Side MOSFET Driver Average Price by Type (2021-2026) & (US\$/Unit)

Table 76. Global High-Side MOSFET Driver Average Price by Type (2027-2032) & (US\$/Unit)

Table 77. Global High-Side MOSFET Driver Sales Quantity by Application (2021-2026) & (Million Units)

Table 78. Global High-Side MOSFET Driver Sales Quantity by Application (2027-2032) & (Million Units)

Table 79. Global High-Side MOSFET Driver Consumption Value by Application (2021-2026) & (USD Million)

Table 80. Global High-Side MOSFET Driver Consumption Value by Application (2027-2032) & (USD Million)

Table 81. Global High-Side MOSFET Driver Average Price by Application (2021-2026) & (US\$/Unit)

Table 82. Global High-Side MOSFET Driver Average Price by Application (2027-2032) & (US\$/Unit)

Table 83. North America High-Side MOSFET Driver Sales Quantity by Type (2021-2026) & (Million Units)

Table 84. North America High-Side MOSFET Driver Sales Quantity by Type (2027-2032) & (Million Units)

Table 85. North America High-Side MOSFET Driver Sales Quantity by Application (2021-2026) & (Million Units)

Table 86. North America High-Side MOSFET Driver Sales Quantity by Application (2027-2032) & (Million Units)

Table 87. North America High-Side MOSFET Driver Sales Quantity by Country (2021-2026) & (Million Units)

Table 88. North America High-Side MOSFET Driver Sales Quantity by Country (2027-2032) & (Million Units)

Table 89. North America High-Side MOSFET Driver Consumption Value by Country (2021-2026) & (USD Million)

Table 90. North America High-Side MOSFET Driver Consumption Value by Country (2027-2032) & (USD Million)

Table 91. Europe High-Side MOSFET Driver Sales Quantity by Type (2021-2026) & (Million Units)

Table 92. Europe High-Side MOSFET Driver Sales Quantity by Type (2027-2032) & (Million Units)

Table 93. Europe High-Side MOSFET Driver Sales Quantity by Application (2021-2026) & (Million Units)

Table 94. Europe High-Side MOSFET Driver Sales Quantity by Application (2027-2032) & (Million Units)

Table 95. Europe High-Side MOSFET Driver Sales Quantity by Country (2021-2026) & (Million Units)

Table 96. Europe High-Side MOSFET Driver Sales Quantity by Country (2027-2032) &

(Million Units)

Table 97. Europe High-Side MOSFET Driver Consumption Value by Country (2021-2026) & (USD Million)

Table 98. Europe High-Side MOSFET Driver Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Asia-Pacific High-Side MOSFET Driver Sales Quantity by Type (2021-2026) & (Million Units)

Table 100. Asia-Pacific High-Side MOSFET Driver Sales Quantity by Type (2027-2032) & (Million Units)

Table 101. Asia-Pacific High-Side MOSFET Driver Sales Quantity by Application (2021-2026) & (Million Units)

Table 102. Asia-Pacific High-Side MOSFET Driver Sales Quantity by Application (2027-2032) & (Million Units)

Table 103. Asia-Pacific High-Side MOSFET Driver Sales Quantity by Region (2021-2026) & (Million Units)

Table 104. Asia-Pacific High-Side MOSFET Driver Sales Quantity by Region (2027-2032) & (Million Units)

Table 105. Asia-Pacific High-Side MOSFET Driver Consumption Value by Region (2021-2026) & (USD Million)

Table 106. Asia-Pacific High-Side MOSFET Driver Consumption Value by Region (2027-2032) & (USD Million)

Table 107. South America High-Side MOSFET Driver Sales Quantity by Type (2021-2026) & (Million Units)

Table 108. South America High-Side MOSFET Driver Sales Quantity by Type (2027-2032) & (Million Units)

Table 109. South America High-Side MOSFET Driver Sales Quantity by Application (2021-2026) & (Million Units)

Table 110. South America High-Side MOSFET Driver Sales Quantity by Application (2027-2032) & (Million Units)

Table 111. South America High-Side MOSFET Driver Sales Quantity by Country (2021-2026) & (Million Units)

Table 112. South America High-Side MOSFET Driver Sales Quantity by Country (2027-2032) & (Million Units)

Table 113. South America High-Side MOSFET Driver Consumption Value by Country (2021-2026) & (USD Million)

Table 114. South America High-Side MOSFET Driver Consumption Value by Country (2027-2032) & (USD Million)

Table 115. Middle East & Africa High-Side MOSFET Driver Sales Quantity by Type (2021-2026) & (Million Units)

Table 116. Middle East & Africa High-Side MOSFET Driver Sales Quantity by Type (2027-2032) & (Million Units)

Table 117. Middle East & Africa High-Side MOSFET Driver Sales Quantity by Application (2021-2026) & (Million Units)

Table 118. Middle East & Africa High-Side MOSFET Driver Sales Quantity by Application (2027-2032) & (Million Units)

Table 119. Middle East & Africa High-Side MOSFET Driver Sales Quantity by Country (2021-2026) & (Million Units)

Table 120. Middle East & Africa High-Side MOSFET Driver Sales Quantity by Country (2027-2032) & (Million Units)

Table 121. Middle East & Africa High-Side MOSFET Driver Consumption Value by Country (2021-2026) & (USD Million)

Table 122. Middle East & Africa High-Side MOSFET Driver Consumption Value by Country (2027-2032) & (USD Million)

Table 123. High-Side MOSFET Driver Raw Material

Table 124. Key Manufacturers of High-Side MOSFET Driver Raw Materials

Table 125. High-Side MOSFET Driver Typical Distributors

Table 126. High-Side MOSFET Driver Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. High-Side MOSFET Driver Picture
- Figure 2. Global High-Side MOSFET Driver Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global High-Side MOSFET Driver Revenue Market Share by Type in 2025
- Figure 4. Single Channel Examples
- Figure 5. Multi Channel Examples
- Figure 6. Global High-Side MOSFET Driver Revenue by Voltage, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global High-Side MOSFET Driver Revenue Market Share by Voltage in 2025
- Figure 8. Low-voltage Driver(below 20V) Examples
- Figure 9. Medium-voltage Driver(20-60V) Examples
- Figure 10. High-voltage Driver(above 60V) Examples
- Figure 11. Global High-Side MOSFET Driver Revenue by Package, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global High-Side MOSFET Driver Revenue Market Share by Package in 2025
- Figure 13. SOIC Package Examples
- Figure 14. TSSOP Package Examples
- Figure 15. Others Examples
- Figure 16. Global High-Side MOSFET Driver Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 17. Global High-Side MOSFET Driver Revenue Market Share by Application in 2025
- Figure 18. Automotive Examples
- Figure 19. Industrial Examples
- Figure 20. Global High-Side MOSFET Driver Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 21. Global High-Side MOSFET Driver Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 22. Global High-Side MOSFET Driver Sales Quantity (2021-2032) & (Million Units)
- Figure 23. Global High-Side MOSFET Driver Price (2021-2032) & (US\$/Unit)
- Figure 24. Global High-Side MOSFET Driver Sales Quantity Market Share by Manufacturer in 2025
- Figure 25. Global High-Side MOSFET Driver Revenue Market Share by Manufacturer in

2025

Figure 26. Producer Shipments of High-Side MOSFET Driver by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 High-Side MOSFET Driver Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 High-Side MOSFET Driver Manufacturer (Revenue) Market Share in 2025

Figure 29. Global High-Side MOSFET Driver Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global High-Side MOSFET Driver Consumption Value Market Share by Region (2021-2032)

Figure 31. North America High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 34. South America High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 36. Global High-Side MOSFET Driver Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global High-Side MOSFET Driver Consumption Value Market Share by Type (2021-2032)

Figure 38. Global High-Side MOSFET Driver Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. Global High-Side MOSFET Driver Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global High-Side MOSFET Driver Revenue Market Share by Application (2021-2032)

Figure 41. Global High-Side MOSFET Driver Average Price by Application (2021-2032) & (US\$/Unit)

Figure 42. North America High-Side MOSFET Driver Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America High-Side MOSFET Driver Sales Quantity Market Share by Application (2021-2032)

Figure 44. North America High-Side MOSFET Driver Sales Quantity Market Share by Country (2021-2032)

Figure 45. North America High-Side MOSFET Driver Consumption Value Market Share by Country (2021-2032)

Figure 46. United States High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 49. Europe High-Side MOSFET Driver Sales Quantity Market Share by Type (2021-2032)

Figure 50. Europe High-Side MOSFET Driver Sales Quantity Market Share by Application (2021-2032)

Figure 51. Europe High-Side MOSFET Driver Sales Quantity Market Share by Country (2021-2032)

Figure 52. Europe High-Side MOSFET Driver Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 54. France High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific High-Side MOSFET Driver Sales Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific High-Side MOSFET Driver Sales Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific High-Side MOSFET Driver Sales Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific High-Side MOSFET Driver Consumption Value Market Share by Region (2021-2032)

Figure 62. China High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 64. South Korea High-Side MOSFET Driver Consumption Value (2021-2032) &

(USD Million)

Figure 65. India High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 68. South America High-Side MOSFET Driver Sales Quantity Market Share by Type (2021-2032)

Figure 69. South America High-Side MOSFET Driver Sales Quantity Market Share by Application (2021-2032)

Figure 70. South America High-Side MOSFET Driver Sales Quantity Market Share by Country (2021-2032)

Figure 71. South America High-Side MOSFET Driver Consumption Value Market Share by Country (2021-2032)

Figure 72. Brazil High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 73. Argentina High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 74. Middle East & Africa High-Side MOSFET Driver Sales Quantity Market Share by Type (2021-2032)

Figure 75. Middle East & Africa High-Side MOSFET Driver Sales Quantity Market Share by Application (2021-2032)

Figure 76. Middle East & Africa High-Side MOSFET Driver Sales Quantity Market Share by Country (2021-2032)

Figure 77. Middle East & Africa High-Side MOSFET Driver Consumption Value Market Share by Country (2021-2032)

Figure 78. Turkey High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 79. Egypt High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 80. Saudi Arabia High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 81. South Africa High-Side MOSFET Driver Consumption Value (2021-2032) & (USD Million)

Figure 82. High-Side MOSFET Driver Market Drivers

Figure 83. High-Side MOSFET Driver Market Restraints

Figure 84. High-Side MOSFET Driver Market Trends

Figure 85. Porters Five Forces Analysis

Figure 86. Manufacturing Cost Structure Analysis of High-Side MOSFET Driver in 2025

Figure 87. Manufacturing Process Analysis of High-Side MOSFET Driver

Figure 88. High-Side MOSFET Driver Industrial Chain

Figure 89. Sales Channel: Direct to End-User vs Distributors

Figure 90. Direct Channel Pros & Cons

Figure 91. Indirect Channel Pros & Cons

Figure 92. Methodology

Figure 93. Research Process and Data Source

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