

Global Automotive Isolated Gate-Driver IC Market Research Report 2026(Status and Outlook)

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Abstracts

Automotive isolated gate driver ICs are integral components in automotive power electronics, particularly in high-voltage systems where switching of power devices like MOSFETs and IGBTs is required. These gate driver ICs provide electrical isolation between the control side (typically low-voltage logic circuits) and the high-voltage power side (typically high-voltage MOSFETs or IGBTs). This isolation is essential for safety, noise immunity, and preventing damage to sensitive control circuits from voltage spikes, transients, or faults on the high-voltage side.

The global Automotive Isolated Gate-Driver IC market size was estimated at USD 110.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Automotive Isolated Gate-Driver IC market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Automotive Isolated Gate-Driver IC market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational

status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Automotive Isolated Gate-Driver IC market.

Global Automotive Isolated Gate-Driver IC Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

STMicroelectronics
Infineon
Rohm Semiconductor
ON Semiconductor
Microchip Technology
Renesas Electronics
NXP Semiconductors
Power Integrations
Skyworks
Analog Devices

Market Segmentation (by Type)

1 Channel
2 Channels

Market Segmentation (by Application)

Battery Management
DC-DC Converter
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Automotive Isolated Gate-Driver IC Market
Overview of the regional outlook of the Automotive Isolated Gate-Driver IC Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future

development potential, and so on. It offers a high-level view of the current state of the Automotive Isolated Gate-Driver IC Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Automotive Isolated Gate-Driver IC, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development

potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Automotive Isolated Gate-Driver IC
- 1.2 Key Market Segments
 - 1.2.1 Automotive Isolated Gate-Driver IC Segment by Type
 - 1.2.2 Automotive Isolated Gate-Driver IC Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 AUTOMOTIVE ISOLATED GATE-DRIVER IC MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Automotive Isolated Gate-Driver IC Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Automotive Isolated Gate-Driver IC Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 AUTOMOTIVE ISOLATED GATE-DRIVER IC MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Automotive Isolated Gate-Driver IC Product Life Cycle
- 3.3 Global Automotive Isolated Gate-Driver IC Sales by Manufacturers (2020-2025)
- 3.4 Global Automotive Isolated Gate-Driver IC Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Automotive Isolated Gate-Driver IC Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Automotive Isolated Gate-Driver IC Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Automotive Isolated Gate-Driver IC Market Competitive Situation and Trends

- 3.8.1 Automotive Isolated Gate-Driver IC Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Automotive Isolated Gate-Driver IC Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 AUTOMOTIVE ISOLATED GATE-DRIVER IC INDUSTRY CHAIN ANALYSIS

- 4.1 Automotive Isolated Gate-Driver IC Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF AUTOMOTIVE ISOLATED GATE-DRIVER IC MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global Automotive Isolated Gate-Driver IC Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to Automotive Isolated Gate-Driver IC Market
- 5.7 ESG Ratings of Leading Companies

6 AUTOMOTIVE ISOLATED GATE-DRIVER IC MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Automotive Isolated Gate-Driver IC Sales Market Share by Type (2020-2025)

6.3 Global Automotive Isolated Gate-Driver IC Market Size by Type (2020-2025)

6.4 Global Automotive Isolated Gate-Driver IC Price by Type (2020-2025)

7 AUTOMOTIVE ISOLATED GATE-DRIVER IC MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Automotive Isolated Gate-Driver IC Market Sales by Application (2020-2025)

7.3 Global Automotive Isolated Gate-Driver IC Market Size (M USD) by Application (2020-2025)

7.4 Global Automotive Isolated Gate-Driver IC Sales Growth Rate by Application (2020-2025)

8 AUTOMOTIVE ISOLATED GATE-DRIVER IC MARKET SALES BY REGION

8.1 Global Automotive Isolated Gate-Driver IC Sales by Region

8.1.1 Global Automotive Isolated Gate-Driver IC Sales by Region

8.1.2 Global Automotive Isolated Gate-Driver IC Sales Market Share by Region

8.2 Global Automotive Isolated Gate-Driver IC Market Size by Region

8.2.1 Global Automotive Isolated Gate-Driver IC Market Size by Region

8.2.2 Global Automotive Isolated Gate-Driver IC Market Size by Region

8.3 North America

8.3.1 North America Automotive Isolated Gate-Driver IC Sales by Country

8.3.2 North America Automotive Isolated Gate-Driver IC Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Automotive Isolated Gate-Driver IC Sales by Country

8.4.2 Europe Automotive Isolated Gate-Driver IC Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Automotive Isolated Gate-Driver IC Sales by Region

8.5.2 Asia Pacific Automotive Isolated Gate-Driver IC Market Size by Region

8.5.3 China Market Overview

- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Automotive Isolated Gate-Driver IC Sales by Country
 - 8.6.2 South America Automotive Isolated Gate-Driver IC Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Automotive Isolated Gate-Driver IC Sales by Region
 - 8.7.2 Middle East and Africa Automotive Isolated Gate-Driver IC Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 AUTOMOTIVE ISOLATED GATE-DRIVER IC MARKET PRODUCTION BY REGION

- 9.1 Global Production of Automotive Isolated Gate-Driver IC by Region(2020-2025)
- 9.2 Global Automotive Isolated Gate-Driver IC Revenue Market Share by Region (2020-2025)
- 9.3 Global Automotive Isolated Gate-Driver IC Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Automotive Isolated Gate-Driver IC Production
 - 9.4.1 North America Automotive Isolated Gate-Driver IC Production Growth Rate (2020-2025)
 - 9.4.2 North America Automotive Isolated Gate-Driver IC Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Automotive Isolated Gate-Driver IC Production
 - 9.5.1 Europe Automotive Isolated Gate-Driver IC Production Growth Rate (2020-2025)
 - 9.5.2 Europe Automotive Isolated Gate-Driver IC Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Automotive Isolated Gate-Driver IC Production (2020-2025)
 - 9.6.1 Japan Automotive Isolated Gate-Driver IC Production Growth Rate (2020-2025)
 - 9.6.2 Japan Automotive Isolated Gate-Driver IC Production, Revenue, Price and Gross

Margin (2020-2025)

9.7 China Automotive Isolated Gate-Driver IC Production (2020-2025)

9.7.1 China Automotive Isolated Gate-Driver IC Production Growth Rate (2020-2025)

9.7.2 China Automotive Isolated Gate-Driver IC Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 STMicroelectronics

10.1.1 STMicroelectronics Basic Information

10.1.2 STMicroelectronics Automotive Isolated Gate-Driver IC Product Overview

10.1.3 STMicroelectronics Automotive Isolated Gate-Driver IC Product Market

Performance

10.1.4 STMicroelectronics Business Overview

10.1.5 STMicroelectronics SWOT Analysis

10.1.6 STMicroelectronics Recent Developments

10.2 Infineon

10.2.1 Infineon Basic Information

10.2.2 Infineon Automotive Isolated Gate-Driver IC Product Overview

10.2.3 Infineon Automotive Isolated Gate-Driver IC Product Market Performance

10.2.4 Infineon Business Overview

10.2.5 Infineon SWOT Analysis

10.2.6 Infineon Recent Developments

10.3 Rohm Semiconductor

10.3.1 Rohm Semiconductor Basic Information

10.3.2 Rohm Semiconductor Automotive Isolated Gate-Driver IC Product Overview

10.3.3 Rohm Semiconductor Automotive Isolated Gate-Driver IC Product Market

Performance

10.3.4 Rohm Semiconductor Business Overview

10.3.5 Rohm Semiconductor SWOT Analysis

10.3.6 Rohm Semiconductor Recent Developments

10.4 ON Semiconductor

10.4.1 ON Semiconductor Basic Information

10.4.2 ON Semiconductor Automotive Isolated Gate-Driver IC Product Overview

10.4.3 ON Semiconductor Automotive Isolated Gate-Driver IC Product Market

Performance

10.4.4 ON Semiconductor Business Overview

10.4.5 ON Semiconductor Recent Developments

10.5 Microchip Technology

- 10.5.1 Microchip Technology Basic Information
- 10.5.2 Microchip Technology Automotive Isolated Gate-Driver IC Product Overview
- 10.5.3 Microchip Technology Automotive Isolated Gate-Driver IC Product Market Performance
- 10.5.4 Microchip Technology Business Overview
- 10.5.5 Microchip Technology Recent Developments
- 10.6 Renesas Electronics
 - 10.6.1 Renesas Electronics Basic Information
 - 10.6.2 Renesas Electronics Automotive Isolated Gate-Driver IC Product Overview
 - 10.6.3 Renesas Electronics Automotive Isolated Gate-Driver IC Product Market Performance
 - 10.6.4 Renesas Electronics Business Overview
 - 10.6.5 Renesas Electronics Recent Developments
- 10.7 NXP Semiconductors
 - 10.7.1 NXP Semiconductors Basic Information
 - 10.7.2 NXP Semiconductors Automotive Isolated Gate-Driver IC Product Overview
 - 10.7.3 NXP Semiconductors Automotive Isolated Gate-Driver IC Product Market Performance
 - 10.7.4 NXP Semiconductors Business Overview
 - 10.7.5 NXP Semiconductors Recent Developments
- 10.8 Power Integrations
 - 10.8.1 Power Integrations Basic Information
 - 10.8.2 Power Integrations Automotive Isolated Gate-Driver IC Product Overview
 - 10.8.3 Power Integrations Automotive Isolated Gate-Driver IC Product Market Performance
 - 10.8.4 Power Integrations Business Overview
 - 10.8.5 Power Integrations Recent Developments
- 10.9 Skyworks
 - 10.9.1 Skyworks Basic Information
 - 10.9.2 Skyworks Automotive Isolated Gate-Driver IC Product Overview
 - 10.9.3 Skyworks Automotive Isolated Gate-Driver IC Product Market Performance
 - 10.9.4 Skyworks Business Overview
 - 10.9.5 Skyworks Recent Developments
- 10.10 Analog Devices
 - 10.10.1 Analog Devices Basic Information
 - 10.10.2 Analog Devices Automotive Isolated Gate-Driver IC Product Overview
 - 10.10.3 Analog Devices Automotive Isolated Gate-Driver IC Product Market Performance
 - 10.10.4 Analog Devices Business Overview

10.10.5 Analog Devices Recent Developments

11 AUTOMOTIVE ISOLATED GATE-DRIVER IC MARKET FORECAST BY REGION

11.1 Global Automotive Isolated Gate-Driver IC Market Size Forecast

11.2 Global Automotive Isolated Gate-Driver IC Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Automotive Isolated Gate-Driver IC Market Size Forecast by Country

11.2.3 Asia Pacific Automotive Isolated Gate-Driver IC Market Size Forecast by Region

11.2.4 South America Automotive Isolated Gate-Driver IC Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Automotive Isolated Gate-Driver IC by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Automotive Isolated Gate-Driver IC Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Automotive Isolated Gate-Driver IC by Type (2026-2035)

12.1.2 Global Automotive Isolated Gate-Driver IC Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Automotive Isolated Gate-Driver IC by Type (2026-2035)

12.2 Global Automotive Isolated Gate-Driver IC Market Forecast by Application (2026-2035)

12.2.1 Global Automotive Isolated Gate-Driver IC Sales (K Units) Forecast by Application

12.2.2 Global Automotive Isolated Gate-Driver IC Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Automotive Isolated Gate-Driver IC Market Size by Type (M USD)

Table 4. Global Automotive Isolated Gate-Driver IC Market Size by Application

Table 5. Automotive Isolated Gate-Driver IC Market Size Comparison by Region (M USD)

Table 6. Global Automotive Isolated Gate-Driver IC Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Automotive Isolated Gate-Driver IC Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Automotive Isolated Gate-Driver IC Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Automotive Isolated Gate-Driver IC Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Automotive Isolated Gate-Driver IC as of 2025)

Table 11. Global Market Automotive Isolated Gate-Driver IC Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Automotive Isolated Gate-Driver IC Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Automotive Isolated Gate-Driver IC Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Automotive Isolated Gate-Driver IC Sales by Type (K Units)

Table 27. Global Automotive Isolated Gate-Driver IC Market Size by Type (M USD)

Table 28. Global Automotive Isolated Gate-Driver IC Sales (K Units) by Type (2020-2025)

Table 29. Global Automotive Isolated Gate-Driver IC Sales Market Share by Type (2020-2025)

Table 30. Global Automotive Isolated Gate-Driver IC Market Size (M USD) by Type (2020-2025)

Table 31. Global Automotive Isolated Gate-Driver IC Market Share by Type (2020-2025)

Table 32. Global Automotive Isolated Gate-Driver IC Price (USD/Unit) by Type (2020-2025)

Table 33. Global Automotive Isolated Gate-Driver IC Sales (K Units) by Application

Table 34. Global Automotive Isolated Gate-Driver IC Market Size by Application

Table 35. Global Automotive Isolated Gate-Driver IC Sales by Application (2020-2025) & (K Units)

Table 36. Global Automotive Isolated Gate-Driver IC Sales Market Share by Application (2020-2025)

Table 37. Global Automotive Isolated Gate-Driver IC Market Size by Application (2020-2025) & (M USD)

Table 38. Global Automotive Isolated Gate-Driver IC Market Share by Application (2020-2025)

Table 39. Global Automotive Isolated Gate-Driver IC Sales Growth Rate by Application (2020-2025)

Table 40. Global Automotive Isolated Gate-Driver IC Sales by Region (2020-2025) & (K Units)

Table 41. Global Automotive Isolated Gate-Driver IC Sales Market Share by Region (2020-2025)

Table 42. Global Automotive Isolated Gate-Driver IC Market Size by Region (2020-2025) & (M USD)

Table 43. Global Automotive Isolated Gate-Driver IC Market Size by Region (2020-2025)

Table 44. North America Automotive Isolated Gate-Driver IC Sales by Country (2020-2025) & (K Units)

Table 45. North America Automotive Isolated Gate-Driver IC Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Automotive Isolated Gate-Driver IC Sales by Country (2020-2025) & (K Units)

Table 47. Europe Automotive Isolated Gate-Driver IC Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Automotive Isolated Gate-Driver IC Sales by Region (2020-2025)

& (K Units)

Table 49. Asia Pacific Automotive Isolated Gate-Driver IC Market Size by Region (2020-2025) & (M USD)

Table 50. South America Automotive Isolated Gate-Driver IC Sales by Country (2020-2025) & (K Units)

Table 51. South America Automotive Isolated Gate-Driver IC Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Automotive Isolated Gate-Driver IC Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Automotive Isolated Gate-Driver IC Market Size by Region (2020-2025) & (M USD)

Table 54. Global Automotive Isolated Gate-Driver IC Production (K Units) by Region(2020-2025)

Table 55. Global Automotive Isolated Gate-Driver IC Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Region (2020-2025)

Table 57. Global Automotive Isolated Gate-Driver IC Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Automotive Isolated Gate-Driver IC Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Automotive Isolated Gate-Driver IC Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Automotive Isolated Gate-Driver IC Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Automotive Isolated Gate-Driver IC Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. STMicroelectronics Basic Information

Table 63. STMicroelectronics Automotive Isolated Gate-Driver IC Product Overview

Table 64. STMicroelectronics Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. STMicroelectronics Business Overview

Table 66. STMicroelectronics SWOT Analysis

Table 67. STMicroelectronics Recent Developments

Table 68. Infineon Basic Information

Table 69. Infineon Automotive Isolated Gate-Driver IC Product Overview

Table 70. Infineon Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Infineon Business Overview

- Table 72. Infineon SWOT Analysis
- Table 73. Infineon Recent Developments
- Table 74. Rohm Semiconductor Basic Information
- Table 75. Rohm Semiconductor Automotive Isolated Gate-Driver IC Product Overview
- Table 76. Rohm Semiconductor Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Rohm Semiconductor Business Overview
- Table 78. Rohm Semiconductor SWOT Analysis
- Table 79. Rohm Semiconductor Recent Developments
- Table 80. ON Semiconductor Basic Information
- Table 81. ON Semiconductor Automotive Isolated Gate-Driver IC Product Overview
- Table 82. ON Semiconductor Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. ON Semiconductor Business Overview
- Table 84. ON Semiconductor Recent Developments
- Table 85. Microchip Technology Basic Information
- Table 86. Microchip Technology Automotive Isolated Gate-Driver IC Product Overview
- Table 87. Microchip Technology Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Microchip Technology Business Overview
- Table 89. Microchip Technology Recent Developments
- Table 90. Renesas Electronics Basic Information
- Table 91. Renesas Electronics Automotive Isolated Gate-Driver IC Product Overview
- Table 92. Renesas Electronics Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Renesas Electronics Business Overview
- Table 94. Renesas Electronics Recent Developments
- Table 95. NXP Semiconductors Basic Information
- Table 96. NXP Semiconductors Automotive Isolated Gate-Driver IC Product Overview
- Table 97. NXP Semiconductors Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. NXP Semiconductors Business Overview
- Table 99. NXP Semiconductors Recent Developments
- Table 100. Power Integrations Basic Information
- Table 101. Power Integrations Automotive Isolated Gate-Driver IC Product Overview
- Table 102. Power Integrations Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Power Integrations Business Overview
- Table 104. Power Integrations Recent Developments

Table 105. Skyworks Basic Information

Table 106. Skyworks Automotive Isolated Gate-Driver IC Product Overview

Table 107. Skyworks Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Skyworks Business Overview

Table 109. Skyworks Recent Developments

Table 110. Analog Devices Basic Information

Table 111. Analog Devices Automotive Isolated Gate-Driver IC Product Overview

Table 112. Analog Devices Automotive Isolated Gate-Driver IC Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Analog Devices Business Overview

Table 114. Analog Devices Recent Developments

Table 115. Global Automotive Isolated Gate-Driver IC Sales Forecast by Region (2026-2035) & (K Units)

Table 116. Global Automotive Isolated Gate-Driver IC Market Size Forecast by Region (2026-2035) & (M USD)

Table 117. North America Automotive Isolated Gate-Driver IC Sales Forecast by Country (2026-2035) & (K Units)

Table 118. North America Automotive Isolated Gate-Driver IC Market Size Forecast by Country (2026-2035) & (M USD)

Table 119. Europe Automotive Isolated Gate-Driver IC Sales Forecast by Country (2026-2035) & (K Units)

Table 120. Europe Automotive Isolated Gate-Driver IC Market Size Forecast by Country (2026-2035) & (M USD)

Table 121. Asia Pacific Automotive Isolated Gate-Driver IC Sales Forecast by Region (2026-2035) & (K Units)

Table 122. Asia Pacific Automotive Isolated Gate-Driver IC Market Size Forecast by Region (2026-2035) & (M USD)

Table 123. South America Automotive Isolated Gate-Driver IC Sales Forecast by Country (2026-2035) & (K Units)

Table 124. South America Automotive Isolated Gate-Driver IC Market Size Forecast by Country (2026-2035) & (M USD)

Table 125. Middle East and Africa Automotive Isolated Gate-Driver IC Sales Forecast by Country (2026-2035) & (Units)

Table 126. Middle East and Africa Automotive Isolated Gate-Driver IC Market Size Forecast by Country (2026-2035) & (M USD)

Table 127. Global Automotive Isolated Gate-Driver IC Sales Forecast by Type (2026-2035) & (K Units)

Table 128. Global Automotive Isolated Gate-Driver IC Market Size Forecast by Type

(2026-2035) & (M USD)

Table 129. Global Automotive Isolated Gate-Driver IC Price Forecast by Type

(2026-2035) & (USD/Unit)

Table 130. Global Automotive Isolated Gate-Driver IC Sales (K Units) Forecast by Application (2026-2035)

Table 131. Global Automotive Isolated Gate-Driver IC Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of Automotive Isolated Gate-Driver IC

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Automotive Isolated Gate-Driver IC Market Size (M USD), 2025-2035

Figure 5. Global Automotive Isolated Gate-Driver IC Market Size (M USD) (2020-2035)

Figure 6. Global Automotive Isolated Gate-Driver IC Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Automotive Isolated Gate-Driver IC Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Automotive Isolated Gate-Driver IC Product Life Cycle

Figure 13. Automotive Isolated Gate-Driver IC Sales Share by Manufacturers in 2025

Figure 14. Global Automotive Isolated Gate-Driver IC Revenue Share by Manufacturers in 2025

Figure 15. Automotive Isolated Gate-Driver IC Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Automotive Isolated Gate-Driver IC Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Automotive Isolated Gate-Driver IC Revenue in 2025

Figure 18. Industry Chain Map of Automotive Isolated Gate-Driver IC

Figure 19. Global Automotive Isolated Gate-Driver IC Market PEST Analysis

Figure 20. Global Automotive Isolated Gate-Driver IC Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Automotive Isolated Gate-Driver IC Market Share by Type

Figure 27. Sales Market Share of Automotive Isolated Gate-Driver IC by Type (2020-2025)

Figure 28. Sales Market Share of Automotive Isolated Gate-Driver IC by Type in 2025

Figure 29. Market Share of Automotive Isolated Gate-Driver IC by Type (2020-2025)

- Figure 30. Market Share of Automotive Isolated Gate-Driver IC by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Automotive Isolated Gate-Driver IC Market Share by Application
- Figure 33. Global Automotive Isolated Gate-Driver IC Sales Market Share by Application (2020-2025)
- Figure 34. Global Automotive Isolated Gate-Driver IC Sales Market Share by Application in 2025
- Figure 35. Global Automotive Isolated Gate-Driver IC Market Share by Application (2020-2025)
- Figure 36. Global Automotive Isolated Gate-Driver IC Market Share by Application in 2025
- Figure 37. Global Automotive Isolated Gate-Driver IC Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Automotive Isolated Gate-Driver IC Sales Market Share by Region (2020-2025)
- Figure 39. Global Automotive Isolated Gate-Driver IC Market Size by Region (2020-2025)
- Figure 40. North America Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Automotive Isolated Gate-Driver IC Sales Market Share by Country in 2024
- Figure 43. North America Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Automotive Isolated Gate-Driver IC Market Size by Country in 2024
- Figure 45. U.S. Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Automotive Isolated Gate-Driver IC Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Automotive Isolated Gate-Driver IC Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Automotive Isolated Gate-Driver IC Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Automotive Isolated Gate-Driver IC Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Automotive Isolated Gate-Driver IC Sales Market Share by Country in 2024

Figure 53. Europe Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Automotive Isolated Gate-Driver IC Market Size by Country in 2024

Figure 55. Germany Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Automotive Isolated Gate-Driver IC Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Automotive Isolated Gate-Driver IC Sales Market Share by Region in 2024

Figure 67. Asia Pacific Automotive Isolated Gate-Driver IC Market Size by Region in 2024

Figure 68. China Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Automotive Isolated Gate-Driver IC Sales and Growth Rate (K Units)

Figure 79. South America Automotive Isolated Gate-Driver IC Sales Market Share by Country in 2024

Figure 80. South America Automotive Isolated Gate-Driver IC Market Size and Growth Rate (M USD)

Figure 81. South America Automotive Isolated Gate-Driver IC Market Size by Country in 2024

Figure 82. Brazil Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Automotive Isolated Gate-Driver IC Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Automotive Isolated Gate-Driver IC Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Automotive Isolated Gate-Driver IC Market Size and

Growth Rate (M USD)

Figure 91. Middle East and Africa Automotive Isolated Gate-Driver IC Market Size by Region in 2024

Figure 92. Saudi Arabia Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Automotive Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Automotive Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Automotive Isolated Gate-Driver IC Production Market Share by Region (2020-2025)

Figure 103. North America Automotive Isolated Gate-Driver IC Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Automotive Isolated Gate-Driver IC Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Automotive Isolated Gate-Driver IC Production (K Units) Growth Rate (2020-2025)

Figure 106. China Automotive Isolated Gate-Driver IC Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Automotive Isolated Gate-Driver IC Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Automotive Isolated Gate-Driver IC Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Automotive Isolated Gate-Driver IC Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Automotive Isolated Gate-Driver IC Market Share Forecast by Type (2026-2035)

Figure 111. Global Automotive Isolated Gate-Driver IC Sales Forecast by Application (2026-2035)

Figure 112. Global Automotive Isolated Gate-Driver IC Market Share Forecast by Application (2026-2035)

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