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# Global Automotive Isolated Gate-Driver IC Market Growth 2026-2032

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## Abstracts

The global Automotive Isolated Gate-Driver IC market size is predicted to grow from US$ 205 million in 2025 to US$ 325 million in 2032; it is expected to grow at a CAGR of 6.8% from 2026 to 2032.

Automotive Isolated Gate-Driver ICs are automotive-grade integrated circuits designed to drive power transistors with galvanic isolation between input and output, providing fast, stable gate control and integrated protection to ensure safe switching and reliable load actuation in vehicle power and actuator systems. In 2025, production was about 105 million units and the average price was USD 2 per unit. The industry?s capacity utilization rate in 2025 was about 60% and the average gross margin was around 45%, with profitability increasingly driven by high-volume design wins, platform reuse, and manufacturing quality that minimizes field failures and qualification rework. Upstream, key inputs include silicon wafers and packaging substrates, with representative suppliers such as Shin-Etsu Chemical, SUMCO, GlobalWafers, Ibiden, AT&S, Shanghai Silicon Industry Group, and Shennan Circuits ensuring material consistency and packaging reliability. The midstream segment covers driver architecture and analog design, protection and fault-handling integration, layout and robustness optimization, silicon verification, tapeout management, automotive qualification planning, and volume test strategy, determining switching performance, EMC behavior, and lifetime reliability. Downstream applications focus on passenger and commercial vehicles, with key customers including Toyota, Volkswagen, Ford, General Motors, BYD, SAIC Motor, Geely Auto, FAW Group, Great Wall Motor, and Foton Motor, where suppliers with stable quality, fast design support, and long-term supply assurance are better positioned to maintain pricing.

Automotive Isolated Gate-Driver ICs play a critical role in modern vehicle electrification

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by enabling safe and reliable control of high-voltage power transistors while maintaining electrical isolation between control and power stages. As electric and hybrid vehicles adopt higher-voltage architectures and increasingly complex actuator systems, demand for ICs with robust protection, fast switching, and electromagnetic compatibility grows. Their application ensures precise load control, mitigates system faults, and enhances overall vehicle reliability, particularly under high-temperature and high-current conditions. OEMs are prioritizing suppliers who can provide design support, consistent quality, and long-term supply commitments, as these factors directly influence production uptime and warranty costs. Advances in integrated protection features, process robustness, and platform reuse also allow manufacturers to optimize cost-efficiency across diverse vehicle programs. As automotive power electronics evolve, ICs that balance isolation performance, switching speed, and thermal stability will become pivotal in supporting increasingly stringent performance and safety standards.

LP Information, Inc. (LPI) ' newest research report, the ?Automotive Isolated Gate-Driver IC Industry Forecast? looks at past sales and reviews total world Automotive Isolated Gate-Driver IC sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive Isolated Gate-Driver IC sales for 2026 through 2032. With Automotive Isolated Gate-Driver IC sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Automotive Isolated Gate-Driver IC industry.

This Insight Report provides a comprehensive analysis of the global Automotive Isolated Gate-Driver IC landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Automotive Isolated Gate-Driver IC portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Automotive Isolated Gate-Driver IC market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Isolated Gate-Driver IC and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive Isolated Gate-Driver IC.

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This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Isolated Gate-Driver IC market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-Channel

Dual-Channel

Segmentation by Voltage:

12V

24V

Segmentation by Package:

SOIC Package

TSSOP Package

Others

Segmentation by Application:

Passenger Cars

Commercial Vehicle

This report also splits the market by region:

Americas

United States

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- Canada
- Mexico
- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa

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Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

STMicroelectronics

Infineon

Rohm Semiconductor

ON Semiconductor

Microchip Technology

Renesas Electronics

NXP Semiconductors

Power Integrations

Skyworks

Analog Devices

IXYS

Diodes

**Key Questions Addressed in this Report**

What is the 10-year outlook for the global Automotive Isolated Gate-Driver IC

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market?

What factors are driving Automotive Isolated Gate-Driver IC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Isolated Gate-Driver IC market opportunities vary by end market size?

How does Automotive Isolated Gate-Driver IC break out by Type, by Application?

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# Contents

## 1 SCOPE OF THE REPORT

1.1 Market Introduction
1.2 Years Considered
1.3 Research Objectives
1.4 Market Research Methodology
1.5 Research Process and Data Source
1.6 Economic Indicators
1.7 Currency Considered
1.8 Market Estimation Caveats

## 2 EXECUTIVE SUMMARY

2.1 World Market Overview
  2.1.1 Global Automotive Isolated Gate-Driver IC Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Automotive Isolated Gate-Driver IC by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Automotive Isolated Gate-Driver IC by Country/Region, 2021, 2025 & 2032
2.2 Automotive Isolated Gate-Driver IC Segment by Type
  2.2.1 Single-Channel
  2.2.2 Dual-Channel
  2.2.3 Automotive Isolated Gate-Driver IC Sales by Type
    2.2.3.1 Global Automotive Isolated Gate-Driver IC Sales Market Share by Type (2021-2026)
    2.2.3.2 Global Automotive Isolated Gate-Driver IC Revenue and Market Share by Type (2021-2026)
    2.2.3.3 Global Automotive Isolated Gate-Driver IC Sale Price by Type (2021-2026)
2.3 Automotive Isolated Gate-Driver IC Segment by Voltage
  2.3.1 12V
  2.3.2 24V
  2.3.3 Automotive Isolated Gate-Driver IC Sales by Voltage
    2.3.3.1 Global Automotive Isolated Gate-Driver IC Sales Market Share by Voltage (2021-2026)
    2.3.3.2 Global Automotive Isolated Gate-Driver IC Revenue and Market Share by Voltage (2021-2026)
    2.3.3.3 Global Automotive Isolated Gate-Driver IC Sale Price by Voltage (2021-2026)

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2.4 Automotive Isolated Gate-Driver IC Segment by Package
2.4.1 SOIC Package
2.4.2 TSSOP Package
2.4.3 Others
2.4.4 Automotive Isolated Gate-Driver IC Sales by Package
2.4.4.1 Global Automotive Isolated Gate-Driver IC Sales Market Share by Package (2021-2026)
2.4.4.2 Global Automotive Isolated Gate-Driver IC Revenue and Market Share by Package (2021-2026)
2.4.4.3 Global Automotive Isolated Gate-Driver IC Sale Price by Package (2021-2026)
2.5 Automotive Isolated Gate-Driver IC Segment by Application
2.5.1 Passenger Cars
2.5.2 Commercial Vehicle
2.5.3 Automotive Isolated Gate-Driver IC Sales by Application
2.5.3.1 Global Automotive Isolated Gate-Driver IC Sale Market Share by Application (2021-2026)
2.5.3.2 Global Automotive Isolated Gate-Driver IC Revenue and Market Share by Application (2021-2026)
2.5.3.3 Global Automotive Isolated Gate-Driver IC Sale Price by Application (2021-2026)

## 3 GLOBAL BY COMPANY

3.1 Global Automotive Isolated Gate-Driver IC Breakdown Data by Company
3.1.1 Global Automotive Isolated Gate-Driver IC Annual Sales by Company (2021-2026)
3.1.2 Global Automotive Isolated Gate-Driver IC Sales Market Share by Company (2021-2026)
3.2 Global Automotive Isolated Gate-Driver IC Annual Revenue by Company (2021-2026)
3.2.1 Global Automotive Isolated Gate-Driver IC Revenue by Company (2021-2026)
3.2.2 Global Automotive Isolated Gate-Driver IC Revenue Market Share by Company (2021-2026)
3.3 Global Automotive Isolated Gate-Driver IC Sale Price by Company
3.4 Key Manufacturers Automotive Isolated Gate-Driver IC Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Automotive Isolated Gate-Driver IC Product Location Distribution

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info@marketpublishers.com

3.4.2 Players Automotive Isolated Gate-Driver IC Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

## 4 WORLD HISTORIC REVIEW FOR AUTOMOTIVE ISOLATED GATE-DRIVER IC BY GEOGRAPHIC REGION

4.1 World Historic Automotive Isolated Gate-Driver IC Market Size by Geographic Region (2021-2026)
4.1.1 Global Automotive Isolated Gate-Driver IC Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Automotive Isolated Gate-Driver IC Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Automotive Isolated Gate-Driver IC Market Size by Country/Region (2021-2026)
4.2.1 Global Automotive Isolated Gate-Driver IC Annual Sales by Country/Region (2021-2026)
4.2.2 Global Automotive Isolated Gate-Driver IC Annual Revenue by Country/Region (2021-2026)
4.3 Americas Automotive Isolated Gate-Driver IC Sales Growth
4.4 APAC Automotive Isolated Gate-Driver IC Sales Growth
4.5 Europe Automotive Isolated Gate-Driver IC Sales Growth
4.6 Middle East & Africa Automotive Isolated Gate-Driver IC Sales Growth

## 5 AMERICAS

5.1 Americas Automotive Isolated Gate-Driver IC Sales by Country
5.1.1 Americas Automotive Isolated Gate-Driver IC Sales by Country (2021-2026)
5.1.2 Americas Automotive Isolated Gate-Driver IC Revenue by Country (2021-2026)
5.2 Americas Automotive Isolated Gate-Driver IC Sales by Type (2021-2026)
5.3 Americas Automotive Isolated Gate-Driver IC Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

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## 6 APAC

6.1 APAC Automotive Isolated Gate-Driver IC Sales by Region
6.1.1 APAC Automotive Isolated Gate-Driver IC Sales by Region (2021-2026)
6.1.2 APAC Automotive Isolated Gate-Driver IC Revenue by Region (2021-2026)
6.2 APAC Automotive Isolated Gate-Driver IC Sales by Type (2021-2026)
6.3 APAC Automotive Isolated Gate-Driver IC Sales by Application (2021-2026)
6.4 China
6.5 Japan
6.6 South Korea
6.7 Southeast Asia
6.8 India
6.9 Australia
6.10 China Taiwan

## 7 EUROPE

7.1 Europe Automotive Isolated Gate-Driver IC by Country
7.1.1 Europe Automotive Isolated Gate-Driver IC Sales by Country (2021-2026)
7.1.2 Europe Automotive Isolated Gate-Driver IC Revenue by Country (2021-2026)
7.2 Europe Automotive Isolated Gate-Driver IC Sales by Type (2021-2026)
7.3 Europe Automotive Isolated Gate-Driver IC Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

## 8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Automotive Isolated Gate-Driver IC by Country
8.1.1 Middle East & Africa Automotive Isolated Gate-Driver IC Sales by Country (2021-2026)
8.1.2 Middle East & Africa Automotive Isolated Gate-Driver IC Revenue by Country (2021-2026)
8.2 Middle East & Africa Automotive Isolated Gate-Driver IC Sales by Type (2021-2026)
8.3 Middle East & Africa Automotive Isolated Gate-Driver IC Sales by Application (2021-2026)
8.4 Egypt

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8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

**9 MARKET DRIVERS, CHALLENGES AND TRENDS**

9.1 Market Drivers & Growth Opportunities
9.2 Market Challenges & Risks
9.3 Industry Trends

**10 MANUFACTURING COST STRUCTURE ANALYSIS**

10.1 Raw Material and Suppliers
10.2 Manufacturing Cost Structure Analysis of Automotive Isolated Gate-Driver IC
10.3 Manufacturing Process Analysis of Automotive Isolated Gate-Driver IC
10.4 Industry Chain Structure of Automotive Isolated Gate-Driver IC

**11 MARKETING, DISTRIBUTORS AND CUSTOMER**

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Automotive Isolated Gate-Driver IC Distributors
11.3 Automotive Isolated Gate-Driver IC Customer

**12 WORLD FORECAST REVIEW FOR AUTOMOTIVE ISOLATED GATE-DRIVER IC BY GEOGRAPHIC REGION**

12.1 Global Automotive Isolated Gate-Driver IC Market Size Forecast by Region
  12.1.1 Global Automotive Isolated Gate-Driver IC Forecast by Region (2027-2032)
  12.1.2 Global Automotive Isolated Gate-Driver IC Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Automotive Isolated Gate-Driver IC Forecast by Type (2027-2032)
12.7 Global Automotive Isolated Gate-Driver IC Forecast by Application (2027-2032)

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## 13 KEY PLAYERS ANALYSIS

13.1 STMicroelectronics
13.1.1 STMicroelectronics Company Information
13.1.2 STMicroelectronics Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.1.3 STMicroelectronics Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 STMicroelectronics Main Business Overview
13.1.5 STMicroelectronics Latest Developments
13.2 Infineon
13.2.1 Infineon Company Information
13.2.2 Infineon Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.2.3 Infineon Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Infineon Main Business Overview
13.2.5 Infineon Latest Developments
13.3 Rohm Semiconductor
13.3.1 Rohm Semiconductor Company Information
13.3.2 Rohm Semiconductor Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.3.3 Rohm Semiconductor Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Rohm Semiconductor Main Business Overview
13.3.5 Rohm Semiconductor Latest Developments
13.4 ON Semiconductor
13.4.1 ON Semiconductor Company Information
13.4.2 ON Semiconductor Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.4.3 ON Semiconductor Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 ON Semiconductor Main Business Overview
13.4.5 ON Semiconductor Latest Developments
13.5 Microchip Technology
13.5.1 Microchip Technology Company Information
13.5.2 Microchip Technology Automotive Isolated Gate-Driver IC Product Portfolios and Specifications

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info@marketpublishers.com

13.5.3 Microchip Technology Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Microchip Technology Main Business Overview
13.5.5 Microchip Technology Latest Developments
13.6 Renesas Electronics
13.6.1 Renesas Electronics Company Information
13.6.2 Renesas Electronics Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.6.3 Renesas Electronics Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 Renesas Electronics Main Business Overview
13.6.5 Renesas Electronics Latest Developments
13.7 NXP Semiconductors
13.7.1 NXP Semiconductors Company Information
13.7.2 NXP Semiconductors Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.7.3 NXP Semiconductors Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 NXP Semiconductors Main Business Overview
13.7.5 NXP Semiconductors Latest Developments
13.8 Power Integrations
13.8.1 Power Integrations Company Information
13.8.2 Power Integrations Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.8.3 Power Integrations Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.8.4 Power Integrations Main Business Overview
13.8.5 Power Integrations Latest Developments
13.9 Skyworks
13.9.1 Skyworks Company Information
13.9.2 Skyworks Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.9.3 Skyworks Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.9.4 Skyworks Main Business Overview
13.9.5 Skyworks Latest Developments
13.10 Analog Devices
13.10.1 Analog Devices Company Information
13.10.2 Analog Devices Automotive Isolated Gate-Driver IC Product Portfolios and

+357 96 030922
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Specifications
13.10.3 Analog Devices Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.10.4 Analog Devices Main Business Overview
13.10.5 Analog Devices Latest Developments
13.11 IXYS
13.11.1 IXYS Company Information
13.11.2 IXYS Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.11.3 IXYS Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.11.4 IXYS Main Business Overview
13.11.5 IXYS Latest Developments
13.12 Diodes
13.12.1 Diodes Company Information
13.12.2 Diodes Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
13.12.3 Diodes Automotive Isolated Gate-Driver IC Sales, Revenue, Price and Gross Margin (2021-2026)
13.12.4 Diodes Main Business Overview
13.12.5 Diodes Latest Developments

**14 RESEARCH FINDINGS AND CONCLUSION**

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info@marketpublishers.com

# List Of Tables

## LIST OF TABLES

Table 1. Automotive Isolated Gate-Driver IC Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Automotive Isolated Gate-Driver IC Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Single-Channel
Table 4. Major Players of Dual-Channel
Table 5. Global Automotive Isolated Gate-Driver IC Sales by Type (2021-2026) & (Million Units)
Table 6. Global Automotive Isolated Gate-Driver IC Sales Market Share by Type (2021-2026)
Table 7. Global Automotive Isolated Gate-Driver IC Revenue by Type (2021-2026) & ($ million)
Table 8. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Type (2021-2026)
Table 9. Global Automotive Isolated Gate-Driver IC Sale Price by Type (2021-2026) & (US$/Unit)
Table 10. Major Players of 12V
Table 11. Major Players of 24V
Table 12. Global Automotive Isolated Gate-Driver IC Sales by Voltage (2021-2026) & (Million Units)
Table 13. Global Automotive Isolated Gate-Driver IC Sales Market Share by Voltage (2021-2026)
Table 14. Global Automotive Isolated Gate-Driver IC Revenue by Voltage (2021-2026) & ($ million)
Table 15. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Voltage (2021-2026)
Table 16. Global Automotive Isolated Gate-Driver IC Sale Price by Voltage (2021-2026) & (US$/Unit)
Table 17. Major Players of SOIC Package
Table 18. Major Players of TSSOP Package
Table 19. Major Players of Others
Table 20. Global Automotive Isolated Gate-Driver IC Sales by Package (2021-2026) & (Million Units)
Table 21. Global Automotive Isolated Gate-Driver IC Sales Market Share by Package (2021-2026)

+357 96 030922
info@marketpublishers.com

Table 22. Global Automotive Isolated Gate-Driver IC Revenue by Package (2021-2026) & ($ million)
Table 23. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Package (2021-2026)
Table 24. Global Automotive Isolated Gate-Driver IC Sale Price by Package (2021-2026) & (US$/Unit)
Table 25. Global Automotive Isolated Gate-Driver IC Sale by Application (2021-2026) & (Million Units)
Table 26. Global Automotive Isolated Gate-Driver IC Sale Market Share by Application (2021-2026)
Table 27. Global Automotive Isolated Gate-Driver IC Revenue by Application (2021-2026) & ($ million)
Table 28. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Application (2021-2026)
Table 29. Global Automotive Isolated Gate-Driver IC Sale Price by Application (2021-2026) & (US$/Unit)
Table 30. Global Automotive Isolated Gate-Driver IC Sales by Company (2021-2026) & (Million Units)
Table 31. Global Automotive Isolated Gate-Driver IC Sales Market Share by Company (2021-2026)
Table 32. Global Automotive Isolated Gate-Driver IC Revenue by Company (2021-2026) & ($ millions)
Table 33. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Company (2021-2026)
Table 34. Global Automotive Isolated Gate-Driver IC Sale Price by Company (2021-2026) & (US$/Unit)
Table 35. Key Manufacturers Automotive Isolated Gate-Driver IC Producing Area Distribution and Sales Area
Table 36. Players Automotive Isolated Gate-Driver IC Products Offered
Table 37. Automotive Isolated Gate-Driver IC Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 38. New Products and Potential Entrants
Table 39. Market M&A Activity & Strategy
Table 40. Global Automotive Isolated Gate-Driver IC Sales by Geographic Region (2021-2026) & (Million Units)
Table 41. Global Automotive Isolated Gate-Driver IC Sales Market Share Geographic Region (2021-2026)
Table 42. Global Automotive Isolated Gate-Driver IC Revenue by Geographic Region (2021-2026) & ($ millions)

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info@marketpublishers.com

Table 43. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global Automotive Isolated Gate-Driver IC Sales by Country/Region (2021-2026) & (Million Units)
Table 45. Global Automotive Isolated Gate-Driver IC Sales Market Share by Country/Region (2021-2026)
Table 46. Global Automotive Isolated Gate-Driver IC Revenue by Country/Region (2021-2026) & ($ millions)
Table 47. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Country/Region (2021-2026)
Table 48. Americas Automotive Isolated Gate-Driver IC Sales by Country (2021-2026) & (Million Units)
Table 49. Americas Automotive Isolated Gate-Driver IC Sales Market Share by Country (2021-2026)
Table 50. Americas Automotive Isolated Gate-Driver IC Revenue by Country (2021-2026) & ($ millions)
Table 51. Americas Automotive Isolated Gate-Driver IC Sales by Type (2021-2026) & (Million Units)
Table 52. Americas Automotive Isolated Gate-Driver IC Sales by Application (2021-2026) & (Million Units)
Table 53. APAC Automotive Isolated Gate-Driver IC Sales by Region (2021-2026) & (Million Units)
Table 54. APAC Automotive Isolated Gate-Driver IC Sales Market Share by Region (2021-2026)
Table 55. APAC Automotive Isolated Gate-Driver IC Revenue by Region (2021-2026) & ($ millions)
Table 56. APAC Automotive Isolated Gate-Driver IC Sales by Type (2021-2026) & (Million Units)
Table 57. APAC Automotive Isolated Gate-Driver IC Sales by Application (2021-2026) & (Million Units)
Table 58. Europe Automotive Isolated Gate-Driver IC Sales by Country (2021-2026) & (Million Units)
Table 59. Europe Automotive Isolated Gate-Driver IC Revenue by Country (2021-2026) & ($ millions)
Table 60. Europe Automotive Isolated Gate-Driver IC Sales by Type (2021-2026) & (Million Units)
Table 61. Europe Automotive Isolated Gate-Driver IC Sales by Application (2021-2026) & (Million Units)
Table 62. Middle East & Africa Automotive Isolated Gate-Driver IC Sales by Country

+357 96 030922
info@marketpublishers.com

(2021-2026) & (Million Units)
Table 63. Middle East & Africa Automotive Isolated Gate-Driver IC Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa Automotive Isolated Gate-Driver IC Sales by Type (2021-2026) & (Million Units)
Table 65. Middle East & Africa Automotive Isolated Gate-Driver IC Sales by Application (2021-2026) & (Million Units)
Table 66. Key Market Drivers & Growth Opportunities of Automotive Isolated Gate-Driver IC
Table 67. Key Market Challenges & Risks of Automotive Isolated Gate-Driver IC
Table 68. Key Industry Trends of Automotive Isolated Gate-Driver IC
Table 69. Automotive Isolated Gate-Driver IC Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. Automotive Isolated Gate-Driver IC Distributors List
Table 72. Automotive Isolated Gate-Driver IC Customer List
Table 73. Global Automotive Isolated Gate-Driver IC Sales Forecast by Region (2027-2032) & (Million Units)
Table 74. Global Automotive Isolated Gate-Driver IC Revenue Forecast by Region (2027-2032) & ($ millions)
Table 75. Americas Automotive Isolated Gate-Driver IC Sales Forecast by Country (2027-2032) & (Million Units)
Table 76. Americas Automotive Isolated Gate-Driver IC Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 77. APAC Automotive Isolated Gate-Driver IC Sales Forecast by Region (2027-2032) & (Million Units)
Table 78. APAC Automotive Isolated Gate-Driver IC Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 79. Europe Automotive Isolated Gate-Driver IC Sales Forecast by Country (2027-2032) & (Million Units)
Table 80. Europe Automotive Isolated Gate-Driver IC Revenue Forecast by Country (2027-2032) & ($ millions)
Table 81. Middle East & Africa Automotive Isolated Gate-Driver IC Sales Forecast by Country (2027-2032) & (Million Units)
Table 82. Middle East & Africa Automotive Isolated Gate-Driver IC Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Global Automotive Isolated Gate-Driver IC Sales Forecast by Type (2027-2032) & (Million Units)
Table 84. Global Automotive Isolated Gate-Driver IC Revenue Forecast by Type (2027-2032) & ($ millions)

+357 96 030922
info@marketpublishers.com

Table 85. Global Automotive Isolated Gate-Driver IC Sales Forecast by Application (2027-2032) & (Million Units)
Table 86. Global Automotive Isolated Gate-Driver IC Revenue Forecast by Application (2027-2032) & ($ millions)
Table 87. STMicroelectronics Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 88. STMicroelectronics Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 89. STMicroelectronics Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 90. STMicroelectronics Main Business
Table 91. STMicroelectronics Latest Developments
Table 92. Infineon Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 93. Infineon Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 94. Infineon Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 95. Infineon Main Business
Table 96. Infineon Latest Developments
Table 97. Rohm Semiconductor Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 98. Rohm Semiconductor Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 99. Rohm Semiconductor Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 100. Rohm Semiconductor Main Business
Table 101. Rohm Semiconductor Latest Developments
Table 102. ON Semiconductor Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 103. ON Semiconductor Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 104. ON Semiconductor Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 105. ON Semiconductor Main Business
Table 106. ON Semiconductor Latest Developments
Table 107. Microchip Technology Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 108. Microchip Technology Automotive Isolated Gate-Driver IC Product Portfolios

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and Specifications
Table 109. Microchip Technology Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 110. Microchip Technology Main Business
Table 111. Microchip Technology Latest Developments
Table 112. Renesas Electronics Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 113. Renesas Electronics Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 114. Renesas Electronics Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 115. Renesas Electronics Main Business
Table 116. Renesas Electronics Latest Developments
Table 117. NXP Semiconductors Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 118. NXP Semiconductors Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 119. NXP Semiconductors Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 120. NXP Semiconductors Main Business
Table 121. NXP Semiconductors Latest Developments
Table 122. Power Integrations Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 123. Power Integrations Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 124. Power Integrations Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 125. Power Integrations Main Business
Table 126. Power Integrations Latest Developments
Table 127. Skyworks Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 128. Skyworks Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 129. Skyworks Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 130. Skyworks Main Business
Table 131. Skyworks Latest Developments
Table 132. Analog Devices Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors

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Table 133. Analog Devices Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 134. Analog Devices Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 135. Analog Devices Main Business
Table 136. Analog Devices Latest Developments
Table 137. IXYS Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 138. IXYS Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 139. IXYS Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 140. IXYS Main Business
Table 141. IXYS Latest Developments
Table 142. Diodes Basic Information, Automotive Isolated Gate-Driver IC Manufacturing Base, Sales Area and Its Competitors
Table 143. Diodes Automotive Isolated Gate-Driver IC Product Portfolios and Specifications
Table 144. Diodes Automotive Isolated Gate-Driver IC Sales (Million Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 145. Diodes Main Business
Table 146. Diodes Latest Developments

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# List Of Figures

## LIST OF FIGURES

Figure 1. Picture of Automotive Isolated Gate-Driver IC
Figure 2. Automotive Isolated Gate-Driver IC Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Automotive Isolated Gate-Driver IC Sales Growth Rate 2021-2032 (Million Units)
Figure 7. Global Automotive Isolated Gate-Driver IC Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Automotive Isolated Gate-Driver IC Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Automotive Isolated Gate-Driver IC Sales Market Share by Country/Region (2025)
Figure 10. Automotive Isolated Gate-Driver IC Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Single-Channel
Figure 12. Product Picture of Dual-Channel
Figure 13. Global Automotive Isolated Gate-Driver IC Sales Market Share by Type in 2026
Figure 14. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Type (2021-2026)
Figure 15. Product Picture of 12V
Figure 16. Product Picture of 24V
Figure 17. Global Automotive Isolated Gate-Driver IC Sales Market Share by Voltage in 2026
Figure 18. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Voltage (2021-2026)
Figure 19. Product Picture of SOIC Package
Figure 20. Product Picture of TSSOP Package
Figure 21. Product Picture of Others
Figure 22. Global Automotive Isolated Gate-Driver IC Sales Market Share by Package in 2026
Figure 23. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Package (2021-2026)
Figure 24. Automotive Isolated Gate-Driver IC Consumed in Passenger Cars

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Figure 25. Global Automotive Isolated Gate-Driver IC Market: Passenger Cars (2021-2026) & (Million Units)
Figure 26. Automotive Isolated Gate-Driver IC Consumed in Commercial Vehicle
Figure 27. Global Automotive Isolated Gate-Driver IC Market: Commercial Vehicle (2021-2026) & (Million Units)
Figure 28. Global Automotive Isolated Gate-Driver IC Sale Market Share by Application (2025)
Figure 29. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Application in 2025
Figure 30. Automotive Isolated Gate-Driver IC Sales by Company in 2025 (Million Units)
Figure 31. Global Automotive Isolated Gate-Driver IC Sales Market Share by Company in 2025
Figure 32. Automotive Isolated Gate-Driver IC Revenue by Company in 2025 ($ millions)
Figure 33. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Company in 2025
Figure 34. Global Automotive Isolated Gate-Driver IC Sales Market Share by Geographic Region (2021-2026)
Figure 35. Global Automotive Isolated Gate-Driver IC Revenue Market Share by Geographic Region in 2025
Figure 36. Americas Automotive Isolated Gate-Driver IC Sales 2021-2026 (Million Units)
Figure 37. Americas Automotive Isolated Gate-Driver IC Revenue 2021-2026 ($ millions)
Figure 38. APAC Automotive Isolated Gate-Driver IC Sales 2021-2026 (Million Units)
Figure 39. APAC Automotive Isolated Gate-Driver IC Revenue 2021-2026 ($ millions)
Figure 40. Europe Automotive Isolated Gate-Driver IC Sales 2021-2026 (Million Units)
Figure 41. Europe Automotive Isolated Gate-Driver IC Revenue 2021-2026 ($ millions)
Figure 42. Middle East & Africa Automotive Isolated Gate-Driver IC Sales 2021-2026 (Million Units)
Figure 43. Middle East & Africa Automotive Isolated Gate-Driver IC Revenue 2021-2026 ($ millions)
Figure 44. Americas Automotive Isolated Gate-Driver IC Sales Market Share by Country in 2025
Figure 45. Americas Automotive Isolated Gate-Driver IC Revenue Market Share by Country (2021-2026)
Figure 46. Americas Automotive Isolated Gate-Driver IC Sales Market Share by Type (2021-2026)
Figure 47. Americas Automotive Isolated Gate-Driver IC Sales Market Share by Application (2021-2026)

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Figure 48. United States Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 49. Canada Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 50. Mexico Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 51. Brazil Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 52. APAC Automotive Isolated Gate-Driver IC Sales Market Share by Region in 2025
Figure 53. APAC Automotive Isolated Gate-Driver IC Revenue Market Share by Region (2021-2026)
Figure 54. APAC Automotive Isolated Gate-Driver IC Sales Market Share by Type (2021-2026)
Figure 55. APAC Automotive Isolated Gate-Driver IC Sales Market Share by Application (2021-2026)
Figure 56. China Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 57. Japan Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 58. South Korea Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 59. Southeast Asia Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 60. India Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 61. Australia Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 62. China Taiwan Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 63. Europe Automotive Isolated Gate-Driver IC Sales Market Share by Country in 2025
Figure 64. Europe Automotive Isolated Gate-Driver IC Revenue Market Share by Country (2021-2026)
Figure 65. Europe Automotive Isolated Gate-Driver IC Sales Market Share by Type (2021-2026)
Figure 66. Europe Automotive Isolated Gate-Driver IC Sales Market Share by Application (2021-2026)
Figure 67. Germany Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($

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millions)
Figure 68. France Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 69. UK Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 70. Italy Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 71. Russia Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 72. Middle East & Africa Automotive Isolated Gate-Driver IC Sales Market Share by Country (2021-2026)
Figure 73. Middle East & Africa Automotive Isolated Gate-Driver IC Sales Market Share by Type (2021-2026)
Figure 74. Middle East & Africa Automotive Isolated Gate-Driver IC Sales Market Share by Application (2021-2026)
Figure 75. Egypt Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 76. South Africa Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 77. Israel Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 78. Turkey Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 79. GCC Countries Automotive Isolated Gate-Driver IC Revenue Growth 2021-2026 ($ millions)
Figure 80. Manufacturing Cost Structure Analysis of Automotive Isolated Gate-Driver IC in 2026
Figure 81. Manufacturing Process Analysis of Automotive Isolated Gate-Driver IC
Figure 82. Industry Chain Structure of Automotive Isolated Gate-Driver IC
Figure 83. Channels of Distribution
Figure 84. Global Automotive Isolated Gate-Driver IC Sales Market Forecast by Region (2027-2032)
Figure 85. Global Automotive Isolated Gate-Driver IC Revenue Market Share Forecast by Region (2027-2032)
Figure 86. Global Automotive Isolated Gate-Driver IC Sales Market Share Forecast by Type (2027-2032)
Figure 87. Global Automotive Isolated Gate-Driver IC Revenue Market Share Forecast by Type (2027-2032)
Figure 88. Global Automotive Isolated Gate-Driver IC Sales Market Share Forecast by

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Application (2027-2032)

Figure 89. Global Automotive Isolated Gate-Driver IC Revenue Market Share Forecast by Application (2027-2032)

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