

Global 650V Isolated Gate-Driver IC Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/GD1EF1195FC2EN.html>

Date: March 2026

Pages: 141

Price: US\$ 3,200.00 (Single User License)

ID: GD1EF1195FC2EN

Abstracts

650V isolated gate driver IC is a specialized integrated circuit designed to drive high-voltage power devices such as MOSFETs, IGBTs, or SiC (Silicon Carbide) and GaN (Gallium Nitride) transistors in various power electronics applications. It provides galvanic isolation between the low-voltage control side (e.g., microcontrollers, digital signal processors) and the high-voltage power side (e.g., motor drives, inverters, power supplies), while enabling efficient and safe switching of power devices.

The global 650V Isolated Gate-Driver IC market size was estimated at USD 250.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 6.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global 650V 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 650V 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 650V Isolated Gate-Driver IC market.

Global 650V 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)

Motor Drives
Inverters
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 650V Isolated Gate-Driver IC Market
Overview of the regional outlook of the 650V Isolated Gate-Driver IC Market:

Customization of the Report

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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 650V 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 650V 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 650V Isolated Gate-Driver IC

1.2 Key Market Segments

1.2.1 650V Isolated Gate-Driver IC Segment by Type

1.2.2 650V 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 650V ISOLATED GATE-DRIVER IC MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global 650V Isolated Gate-Driver IC Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global 650V Isolated Gate-Driver IC Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 650V ISOLATED GATE-DRIVER IC MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global 650V Isolated Gate-Driver IC Product Life Cycle

3.3 Global 650V Isolated Gate-Driver IC Sales by Manufacturers (2020-2025)

3.4 Global 650V Isolated Gate-Driver IC Revenue Market Share by Manufacturers (2020-2025)

3.5 650V Isolated Gate-Driver IC Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global 650V Isolated Gate-Driver IC Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 650V Isolated Gate-Driver IC Market Competitive Situation and Trends

3.8.1 650V Isolated Gate-Driver IC Market Concentration Rate

3.8.2 Global 5 and 10 Largest 650V Isolated Gate-Driver IC Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 650V ISOLATED GATE-DRIVER IC INDUSTRY CHAIN ANALYSIS

4.1 650V 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 650V 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 650V 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 650V Isolated Gate-Driver IC Market

5.7 ESG Ratings of Leading Companies

6 650V ISOLATED GATE-DRIVER IC MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global 650V Isolated Gate-Driver IC Sales Market Share by Type (2020-2025)

6.3 Global 650V Isolated Gate-Driver IC Market Size by Type (2020-2025)

6.4 Global 650V Isolated Gate-Driver IC Price by Type (2020-2025)

7 650V ISOLATED GATE-DRIVER IC MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global 650V Isolated Gate-Driver IC Market Sales by Application (2020-2025)
- 7.3 Global 650V Isolated Gate-Driver IC Market Size (M USD) by Application (2020-2025)
- 7.4 Global 650V Isolated Gate-Driver IC Sales Growth Rate by Application (2020-2025)

8 650V ISOLATED GATE-DRIVER IC MARKET SALES BY REGION

- 8.1 Global 650V Isolated Gate-Driver IC Sales by Region
 - 8.1.1 Global 650V Isolated Gate-Driver IC Sales by Region
 - 8.1.2 Global 650V Isolated Gate-Driver IC Sales Market Share by Region
- 8.2 Global 650V Isolated Gate-Driver IC Market Size by Region
 - 8.2.1 Global 650V Isolated Gate-Driver IC Market Size by Region
 - 8.2.2 Global 650V Isolated Gate-Driver IC Market Size by Region
- 8.3 North America
 - 8.3.1 North America 650V Isolated Gate-Driver IC Sales by Country
 - 8.3.2 North America 650V 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 650V Isolated Gate-Driver IC Sales by Country
 - 8.4.2 Europe 650V 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 650V Isolated Gate-Driver IC Sales by Region
 - 8.5.2 Asia Pacific 650V 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 650V Isolated Gate-Driver IC Sales by Country

- 8.6.2 South America 650V 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 650V Isolated Gate-Driver IC Sales by Region
 - 8.7.2 Middle East and Africa 650V 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 650V ISOLATED GATE-DRIVER IC MARKET PRODUCTION BY REGION

- 9.1 Global Production of 650V Isolated Gate-Driver IC by Region(2020-2025)
- 9.2 Global 650V Isolated Gate-Driver IC Revenue Market Share by Region (2020-2025)
- 9.3 Global 650V Isolated Gate-Driver IC Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America 650V Isolated Gate-Driver IC Production
 - 9.4.1 North America 650V Isolated Gate-Driver IC Production Growth Rate (2020-2025)
 - 9.4.2 North America 650V Isolated Gate-Driver IC Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe 650V Isolated Gate-Driver IC Production
 - 9.5.1 Europe 650V Isolated Gate-Driver IC Production Growth Rate (2020-2025)
 - 9.5.2 Europe 650V Isolated Gate-Driver IC Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan 650V Isolated Gate-Driver IC Production (2020-2025)
 - 9.6.1 Japan 650V Isolated Gate-Driver IC Production Growth Rate (2020-2025)
 - 9.6.2 Japan 650V Isolated Gate-Driver IC Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China 650V Isolated Gate-Driver IC Production (2020-2025)
 - 9.7.1 China 650V Isolated Gate-Driver IC Production Growth Rate (2020-2025)
 - 9.7.2 China 650V 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 650V Isolated Gate-Driver IC Product Overview

10.1.3 STMicroelectronics 650V 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 650V Isolated Gate-Driver IC Product Overview

10.2.3 Infineon 650V 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 650V Isolated Gate-Driver IC Product Overview

10.3.3 Rohm Semiconductor 650V 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 650V Isolated Gate-Driver IC Product Overview

10.4.3 ON Semiconductor 650V 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 650V Isolated Gate-Driver IC Product Overview

10.5.3 Microchip Technology 650V 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 650V Isolated Gate-Driver IC Product Overview

10.6.3 Renesas Electronics 650V 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 650V Isolated Gate-Driver IC Product Overview
 - 10.7.3 NXP Semiconductors 650V 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 650V Isolated Gate-Driver IC Product Overview
 - 10.8.3 Power Integrations 650V 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 650V Isolated Gate-Driver IC Product Overview
 - 10.9.3 Skyworks 650V 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 650V Isolated Gate-Driver IC Product Overview
 - 10.10.3 Analog Devices 650V Isolated Gate-Driver IC Product Market Performance
 - 10.10.4 Analog Devices Business Overview
 - 10.10.5 Analog Devices Recent Developments

11 650V ISOLATED GATE-DRIVER IC MARKET FORECAST BY REGION

- 11.1 Global 650V Isolated Gate-Driver IC Market Size Forecast
- 11.2 Global 650V Isolated Gate-Driver IC Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe 650V Isolated Gate-Driver IC Market Size Forecast by Country
 - 11.2.3 Asia Pacific 650V Isolated Gate-Driver IC Market Size Forecast by Region
 - 11.2.4 South America 650V Isolated Gate-Driver IC Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of 650V Isolated Gate-Driver IC by Country

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

12.1 Global 650V Isolated Gate-Driver IC Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of 650V Isolated Gate-Driver IC by Type (2026-2035)

12.1.2 Global 650V Isolated Gate-Driver IC Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of 650V Isolated Gate-Driver IC by Type (2026-2035)

12.2 Global 650V Isolated Gate-Driver IC Market Forecast by Application (2026-2035)

12.2.1 Global 650V Isolated Gate-Driver IC Sales (K Units) Forecast by Application

12.2.2 Global 650V 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 650V Isolated Gate-Driver IC Market Size by Type (M USD)

Table 4. Global 650V Isolated Gate-Driver IC Market Size by Application

Table 5. 650V Isolated Gate-Driver IC Market Size Comparison by Region (M USD)

Table 6. Global 650V Isolated Gate-Driver IC Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global 650V Isolated Gate-Driver IC Sales Market Share by Manufacturers (2020-2025)

Table 8. Global 650V Isolated Gate-Driver IC Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global 650V 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 650V Isolated Gate-Driver IC as of 2025)

Table 11. Global Market 650V 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 650V 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. 650V 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 650V Isolated Gate-Driver IC Sales by Type (K Units)

Table 27. Global 650V Isolated Gate-Driver IC Market Size by Type (M USD)

Table 28. Global 650V Isolated Gate-Driver IC Sales (K Units) by Type (2020-2025)

Table 29. Global 650V Isolated Gate-Driver IC Sales Market Share by Type (2020-2025)

Table 30. Global 650V Isolated Gate-Driver IC Market Size (M USD) by Type (2020-2025)

Table 31. Global 650V Isolated Gate-Driver IC Market Share by Type (2020-2025)

Table 32. Global 650V Isolated Gate-Driver IC Price (USD/Unit) by Type (2020-2025)

Table 33. Global 650V Isolated Gate-Driver IC Sales (K Units) by Application

Table 34. Global 650V Isolated Gate-Driver IC Market Size by Application

Table 35. Global 650V Isolated Gate-Driver IC Sales by Application (2020-2025) & (K Units)

Table 36. Global 650V Isolated Gate-Driver IC Sales Market Share by Application (2020-2025)

Table 37. Global 650V Isolated Gate-Driver IC Market Size by Application (2020-2025) & (M USD)

Table 38. Global 650V Isolated Gate-Driver IC Market Share by Application (2020-2025)

Table 39. Global 650V Isolated Gate-Driver IC Sales Growth Rate by Application (2020-2025)

Table 40. Global 650V Isolated Gate-Driver IC Sales by Region (2020-2025) & (K Units)

Table 41. Global 650V Isolated Gate-Driver IC Sales Market Share by Region (2020-2025)

Table 42. Global 650V Isolated Gate-Driver IC Market Size by Region (2020-2025) & (M USD)

Table 43. Global 650V Isolated Gate-Driver IC Market Size by Region (2020-2025)

Table 44. North America 650V Isolated Gate-Driver IC Sales by Country (2020-2025) & (K Units)

Table 45. North America 650V Isolated Gate-Driver IC Market Size by Country (2020-2025) & (M USD)

Table 46. Europe 650V Isolated Gate-Driver IC Sales by Country (2020-2025) & (K Units)

Table 47. Europe 650V Isolated Gate-Driver IC Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific 650V Isolated Gate-Driver IC Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific 650V Isolated Gate-Driver IC Market Size by Region (2020-2025) & (M USD)

Table 50. South America 650V Isolated Gate-Driver IC Sales by Country (2020-2025) & (K Units)

Table 51. South America 650V Isolated Gate-Driver IC Market Size by Country

(2020-2025) & (M USD)

Table 52. Middle East and Africa 650V Isolated Gate-Driver IC Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa 650V Isolated Gate-Driver IC Market Size by Region (2020-2025) & (M USD)

Table 54. Global 650V Isolated Gate-Driver IC Production (K Units) by Region(2020-2025)

Table 55. Global 650V Isolated Gate-Driver IC Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global 650V Isolated Gate-Driver IC Revenue Market Share by Region (2020-2025)

Table 57. Global 650V Isolated Gate-Driver IC Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America 650V Isolated Gate-Driver IC Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe 650V Isolated Gate-Driver IC Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan 650V Isolated Gate-Driver IC Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China 650V 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 650V Isolated Gate-Driver IC Product Overview

Table 64. STMicroelectronics 650V 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 650V Isolated Gate-Driver IC Product Overview

Table 70. Infineon 650V 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 650V Isolated Gate-Driver IC Product Overview

Table 76. Rohm Semiconductor 650V 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 650V Isolated Gate-Driver IC Product Overview
- Table 82. ON Semiconductor 650V 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 650V Isolated Gate-Driver IC Product Overview
- Table 87. Microchip Technology 650V 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 650V Isolated Gate-Driver IC Product Overview
- Table 92. Renesas Electronics 650V 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 650V Isolated Gate-Driver IC Product Overview
- Table 97. NXP Semiconductors 650V 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 650V Isolated Gate-Driver IC Product Overview
- Table 102. Power Integrations 650V 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 650V Isolated Gate-Driver IC Product Overview
- Table 107. Skyworks 650V 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 650V Isolated Gate-Driver IC Product Overview
- Table 112. Analog Devices 650V 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 650V Isolated Gate-Driver IC Sales Forecast by Region (2026-2035) & (K Units)
- Table 116. Global 650V Isolated Gate-Driver IC Market Size Forecast by Region (2026-2035) & (M USD)
- Table 117. North America 650V Isolated Gate-Driver IC Sales Forecast by Country (2026-2035) & (K Units)
- Table 118. North America 650V Isolated Gate-Driver IC Market Size Forecast by Country (2026-2035) & (M USD)
- Table 119. Europe 650V Isolated Gate-Driver IC Sales Forecast by Country (2026-2035) & (K Units)
- Table 120. Europe 650V Isolated Gate-Driver IC Market Size Forecast by Country (2026-2035) & (M USD)
- Table 121. Asia Pacific 650V Isolated Gate-Driver IC Sales Forecast by Region (2026-2035) & (K Units)
- Table 122. Asia Pacific 650V Isolated Gate-Driver IC Market Size Forecast by Region (2026-2035) & (M USD)
- Table 123. South America 650V Isolated Gate-Driver IC Sales Forecast by Country (2026-2035) & (K Units)
- Table 124. South America 650V Isolated Gate-Driver IC Market Size Forecast by Country (2026-2035) & (M USD)
- Table 125. Middle East and Africa 650V Isolated Gate-Driver IC Sales Forecast by Country (2026-2035) & (Units)
- Table 126. Middle East and Africa 650V Isolated Gate-Driver IC Market Size Forecast by Country (2026-2035) & (M USD)
- Table 127. Global 650V Isolated Gate-Driver IC Sales Forecast by Type (2026-2035) & (K Units)
- Table 128. Global 650V Isolated Gate-Driver IC Market Size Forecast by Type (2026-2035) & (M USD)
- Table 129. Global 650V Isolated Gate-Driver IC Price Forecast by Type (2026-2035) & (USD/Unit)
- Table 130. Global 650V Isolated Gate-Driver IC Sales (K Units) Forecast by Application (2026-2035)
- Table 131. Global 650V Isolated Gate-Driver IC Market Size Forecast by Application

(2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of 650V Isolated Gate-Driver IC
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global 650V Isolated Gate-Driver IC Market Size (M USD), 2025-2035
- Figure 5. Global 650V Isolated Gate-Driver IC Market Size (M USD) (2020-2035)
- Figure 6. Global 650V 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. 650V Isolated Gate-Driver IC Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global 650V Isolated Gate-Driver IC Product Life Cycle
- Figure 13. 650V Isolated Gate-Driver IC Sales Share by Manufacturers in 2025
- Figure 14. Global 650V Isolated Gate-Driver IC Revenue Share by Manufacturers in 2025
- Figure 15. 650V Isolated Gate-Driver IC Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market 650V 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 650V Isolated Gate-Driver IC Revenue in 2025
- Figure 18. Industry Chain Map of 650V Isolated Gate-Driver IC
- Figure 19. Global 650V Isolated Gate-Driver IC Market PEST Analysis
- Figure 20. Global 650V 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 650V Isolated Gate-Driver IC Market Share by Type
- Figure 27. Sales Market Share of 650V Isolated Gate-Driver IC by Type (2020-2025)
- Figure 28. Sales Market Share of 650V Isolated Gate-Driver IC by Type in 2025
- Figure 29. Market Share of 650V Isolated Gate-Driver IC by Type (2020-2025)
- Figure 30. Market Share of 650V Isolated Gate-Driver IC by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global 650V Isolated Gate-Driver IC Market Share by Application
- Figure 33. Global 650V Isolated Gate-Driver IC Sales Market Share by Application (2020-2025)
- Figure 34. Global 650V Isolated Gate-Driver IC Sales Market Share by Application in 2025
- Figure 35. Global 650V Isolated Gate-Driver IC Market Share by Application (2020-2025)
- Figure 36. Global 650V Isolated Gate-Driver IC Market Share by Application in 2025
- Figure 37. Global 650V Isolated Gate-Driver IC Sales Growth Rate by Application (2020-2025)
- Figure 38. Global 650V Isolated Gate-Driver IC Sales Market Share by Region (2020-2025)
- Figure 39. Global 650V Isolated Gate-Driver IC Market Size by Region (2020-2025)
- Figure 40. North America 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America 650V Isolated Gate-Driver IC Sales Market Share by Country in 2024
- Figure 43. North America 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America 650V Isolated Gate-Driver IC Market Size by Country in 2024
- Figure 45. U.S. 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada 650V Isolated Gate-Driver IC Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada 650V Isolated Gate-Driver IC Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico 650V Isolated Gate-Driver IC Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico 650V Isolated Gate-Driver IC Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe 650V Isolated Gate-Driver IC Sales Market Share by Country in 2024
- Figure 53. Europe 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe 650V Isolated Gate-Driver IC Market Size by Country in 2024

Figure 55. Germany 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific 650V Isolated Gate-Driver IC Sales and Growth Rate (K Units)

Figure 66. Asia Pacific 650V Isolated Gate-Driver IC Sales Market Share by Region in 2024

Figure 67. Asia Pacific 650V Isolated Gate-Driver IC Market Size by Region in 2024

Figure 68. China 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

- Figure 75. India 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 76. Southeast Asia 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 77. Southeast Asia 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 78. South America 650V Isolated Gate-Driver IC Sales and Growth Rate (K Units)
- Figure 79. South America 650V Isolated Gate-Driver IC Sales Market Share by Country in 2024
- Figure 80. South America 650V Isolated Gate-Driver IC Market Size and Growth Rate (M USD)
- Figure 81. South America 650V Isolated Gate-Driver IC Market Size by Country in 2024
- Figure 82. Brazil 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 83. Brazil 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 84. Argentina 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 85. Argentina 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 86. Columbia 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 87. Columbia 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 88. Middle East and Africa 650V Isolated Gate-Driver IC Sales and Growth Rate (K Units)
- Figure 89. Middle East and Africa 650V Isolated Gate-Driver IC Sales Market Share by Region in 2024
- Figure 90. Middle East and Africa 650V Isolated Gate-Driver IC Market Size and Growth Rate (M USD)
- Figure 91. Middle East and Africa 650V Isolated Gate-Driver IC Market Size by Region in 2024
- Figure 92. Saudi Arabia 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 93. Saudi Arabia 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 94. UAE 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)

- Figure 95. UAE 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 96. Egypt 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 97. Egypt 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 98. Nigeria 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 99. Nigeria 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 100. South Africa 650V Isolated Gate-Driver IC Sales and Growth Rate (2020-2025) & (K Units)
- Figure 101. South Africa 650V Isolated Gate-Driver IC Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 102. Global 650V Isolated Gate-Driver IC Production Market Share by Region (2020-2025)
- Figure 103. North America 650V Isolated Gate-Driver IC Production (K Units) Growth Rate (2020-2025)
- Figure 104. Europe 650V Isolated Gate-Driver IC Production (K Units) Growth Rate (2020-2025)
- Figure 105. Japan 650V Isolated Gate-Driver IC Production (K Units) Growth Rate (2020-2025)
- Figure 106. China 650V Isolated Gate-Driver IC Production (K Units) Growth Rate (2020-2025)
- Figure 107. Global 650V Isolated Gate-Driver IC Sales Forecast by Volume (2020-2035) & (K Units)
- Figure 108. Global 650V Isolated Gate-Driver IC Market Size Forecast by Value (2020-2035) & (M USD)
- Figure 109. Global 650V Isolated Gate-Driver IC Sales Market Share Forecast by Type (2026-2035)
- Figure 110. Global 650V Isolated Gate-Driver IC Market Share Forecast by Type (2026-2035)
- Figure 111. Global 650V Isolated Gate-Driver IC Sales Forecast by Application (2026-2035)
- Figure 112. Global 650V Isolated Gate-Driver IC Market Share Forecast by Application (2026-2035)

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