

# Global Automotive Isolated Gate-Driver IC Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Automotive Isolated Gate-Driver IC market size was valued at US\$ 216 million in 2025 and is forecast to a readjusted size of US\$ 334 million by 2032 with a CAGR of 6.4% during review period.

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 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.

This report is a detailed and comprehensive analysis for global Automotive Isolated Gate-Driver IC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Automotive Isolated Gate-Driver IC market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Isolated Gate-Driver IC market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Isolated Gate-Driver IC market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Isolated Gate-Driver IC market shares of main players, shipments in

revenue (\$ Million), sales quantity (Million Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Isolated Gate-Driver IC

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Isolated Gate-Driver IC market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include STMicroelectronics, Infineon, Rohm Semiconductor, ON Semiconductor, Microchip Technology, Renesas Electronics, NXP Semiconductors, Power Integrations, Skyworks, Analog Devices, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

### **Market Segmentation**

Automotive Isolated Gate-Driver IC market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single-Channel

Dual-Channel

Market segment by Voltage

12V

24V

#### Market segment by Package

SOIC Package

TSSOP Package

Others

#### Market segment by Application

Passenger Cars

Commercial Vehicle

#### Major players covered

STMicroelectronics

Infineon

Rohm Semiconductor

ON Semiconductor

Microchip Technology

Renesas Electronics

NXP Semiconductors

Power Integrations

Skyworks

Analog Devices

IXYS

Diodes

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Automotive Isolated Gate-Driver IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Isolated Gate-Driver IC, with price, sales quantity, revenue, and global market share of Automotive Isolated Gate-Driver IC from 2021 to 2026.

Chapter 3, the Automotive Isolated Gate-Driver IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Isolated Gate-Driver IC breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Automotive Isolated Gate-Driver IC market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Isolated Gate-Driver IC.

Chapter 14 and 15, to describe Automotive Isolated Gate-Driver IC sales channel, distributors, customers, research findings and conclusion.

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