

Global Automotive Isolated Gate-Driver IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Isolated Gate-Driver IC market size is expected to reach \$ 334 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

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

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 studies the global Automotive Isolated Gate-Driver IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Isolated Gate-Driver IC and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Isolated Gate-Driver IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Isolated Gate-Driver IC total production and demand, 2021-2032, (Million Units)

Global Automotive Isolated Gate-Driver IC total production value, 2021-2032, (USD Million)

Global Automotive Isolated Gate-Driver IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Automotive Isolated Gate-Driver IC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive Isolated Gate-Driver IC domestic production, consumption, key domestic manufacturers and share

Global Automotive Isolated Gate-Driver IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Automotive Isolated Gate-Driver IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive Isolated Gate-Driver IC production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive Isolated Gate-Driver IC market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Isolated Gate-Driver IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Isolated Gate-Driver IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Isolated Gate-Driver IC Market, Segmentation by Type:

Single-Channel

Dual-Channel

Global Automotive Isolated Gate-Driver IC Market, Segmentation by Voltage:

12V

24V

Global Automotive Isolated Gate-Driver IC Market, Segmentation by Package:

SOIC Package

TSSOP Package

Others

Global Automotive Isolated Gate-Driver IC Market, Segmentation by Application:

Passenger Cars

Commercial Vehicle

Companies Profiled:

STMicroelectronics

Infineon

Rohm Semiconductor

ON Semiconductor

Microchip Technology

Renesas Electronics

NXP Semiconductors

Power Integrations

Skyworks

Analog Devices

IXYS

Diodes

Key Questions Answered:

1. How big is the global Automotive Isolated Gate-Driver IC market?
2. What is the demand of the global Automotive Isolated Gate-Driver IC market?
3. What is the year over year growth of the global Automotive Isolated Gate-Driver IC market?
4. What is the production and production value of the global Automotive Isolated Gate-Driver IC market?
5. Who are the key producers in the global Automotive Isolated Gate-Driver IC market?
6. What are the growth factors driving the market demand?

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