

Global Automotive Low-side Gate Drivers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Low-side Gate Drivers market size is expected to reach \$ 115 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Automotive Low-side Gate Drivers are automotive-grade ICs that drive low-side power transistors, delivering fast and stable gate control with integrated protection to ensure efficient switching and reliable load actuation in vehicle power and actuator systems. In 2025, production was about 81 million units and the average price was USD 0.9 per unit. The industry's capacity utilization rate in 2025 was about 60% and the average gross margin was around 45%, so profitability is increasingly secured by high-volume design wins, platform reuse, and manufacturing quality that reduces field failures and qualification rework. Upstream, the main inputs were 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 supporting material consistency and packaging reliability. The midstream segment includes driver architecture and analog design, protection and fault handling integration, layout and robustness design, silicon verification, tapeout management, automotive qualification planning, and volume test strategy, which together determine switching performance, EMC behavior, and lifetime reliability. Downstream applications are concentrated in passenger vehicles and commercial vehicles, with representative customers including Toyota, Volkswagen, Ford, General Motors, BYD, SAIC Motor, Geely Auto, FAW Group, Great Wall Motor, and Foton Motor, where suppliers that combine stable quality, fast design-in support, and long-term supply assurance are better positioned to defend pricing.

The market outlook for Automotive High-Side FET Drivers is shaped by the steady rise of electrical loads and power-domain complexity in modern vehicles. As body electronics, chassis control, and auxiliary power management systems become more

integrated, high-side drivers are increasingly required to deliver not only basic switching but also robust protection, diagnostics, and fault tolerance under harsh automotive conditions. While high-volume vehicle platforms continue to exert cost pressure, automakers are placing greater value on devices that reduce system losses, simplify wiring and control architectures, and shorten validation cycles. Profitability over the coming years will depend on suppliers' ability to embed these drivers deeply into long-lifecycle vehicle platforms, reuse qualified designs across multiple models, and support customers with application-level know-how. Companies that can balance cost competitiveness with reliability and integration depth are more likely to maintain stable margins as automotive electronics mature.

This report studies the global Automotive Low-side Gate Drivers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Low-side Gate Drivers 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 Low-side Gate Drivers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Low-side Gate Drivers total production and demand, 2021-2032, (Million Units)

Global Automotive Low-side Gate Drivers total production value, 2021-2032, (USD Million)

Global Automotive Low-side Gate Drivers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Automotive Low-side Gate Drivers consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Automotive Low-side Gate Drivers domestic production, consumption, key domestic manufacturers and share

Global Automotive Low-side Gate Drivers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Automotive Low-side Gate Drivers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Automotive Low-side Gate Drivers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Automotive Low-side Gate Drivers 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 Low-side Gate Drivers 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 Low-side Gate Drivers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Low-side Gate Drivers Market, Segmentation by Type:

Single-Channel

Dual-Channel

Global Automotive Low-side Gate Drivers Market, Segmentation by Voltage:

12V

24V

Global Automotive Low-side Gate Drivers Market, Segmentation by Package:

SOIC Package

TSSOP Package

Others

Global Automotive Low-side Gate Drivers 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

Power Integrations

IXYS

Diodes

Key Questions Answered:

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

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