

# Global Automotive Low-side Gate Drivers Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G095AD5642B1EN.html>

Date: January 2026

Pages: 115

Price: US\$ 3,480.00 (Single User License)

ID: G095AD5642B1EN

## Abstracts

According to our (Global Info Research) latest study, the global Automotive Low-side Gate Drivers market size was valued at US\$ 75.11 million in 2025 and is forecast to a readjusted size of US\$ 115 million by 2032 with a CAGR of 6.3% during review period.

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 is a detailed and comprehensive analysis for global Automotive Low-side Gate Drivers 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 Low-side Gate Drivers market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Low-side Gate Drivers 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 Low-side Gate Drivers 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 Low-side Gate Drivers 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 Low-side Gate Drivers

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 Low-side Gate Drivers 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 Low-side Gate Drivers 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

Power Integrations

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 Low-side Gate Drivers product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Automotive Low-side Gate Drivers 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 Low-side Gate Drivers 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 Low-side Gate Drivers.

Chapter 14 and 15, to describe Automotive Low-side Gate Drivers sales channel, distributors, customers, research findings and conclusion.

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