

# Global EV High-Voltage Gate Driver ICs Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global EV High-Voltage Gate Driver ICs market size is expected to reach \$ 555 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

EV High-Voltage Gate Driver ICs are specialized automotive integrated circuits designed to manage high-voltage power transistors in electric vehicles, providing fast, precise gate control with integrated protection to ensure safe and efficient switching under demanding operating conditions. Their advantages include enhanced voltage tolerance, low power loss, high integration, and improved reliability for high-voltage automotive systems. The capacity utilization rate in 2025 was 82%, and the industry's average gross margin was about 45%. In 2025, production was 222 million units and the average price was USD 1.6 per unit. Upstream, key inputs include silicon wafers and photoresist materials, with representative suppliers such as Shin-Etsu Chemical, SUMCO, GlobalWafers, and Ibiden. The midstream segment focuses on IC architecture design, gate drive circuit integration, layout optimization, packaging, and automotive-grade testing. Downstream applications target passenger and commercial electric vehicles, with key customers including Tesla, BYD, Volkswagen, General Motors, SAIC Motor, and NIO.

EV High-Voltage Gate Driver ICs play a critical role in the control and protection of high-voltage power modules in electric vehicles, directly influencing efficiency, safety, and system responsiveness. Increasing adoption of high-voltage architectures and compact inverter designs emphasizes the need for reliable, low-loss, and highly integrated driver ICs. Their performance in harsh automotive environments, including thermal and electrical stress, determines the operational stability of battery and powertrain systems. As vehicle electrification accelerates and power density requirements grow, the demand

for high-quality gate drivers is shaped more by technical reliability and system compatibility than simple volume growth, highlighting the importance of precision design and supplier expertise.

This report studies the global EV High-Voltage Gate Driver ICs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for EV High-Voltage Gate Driver ICs 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 EV High-Voltage Gate Driver ICs that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global EV High-Voltage Gate Driver ICs total production and demand, 2021-2032, (Million Units)

Global EV High-Voltage Gate Driver ICs total production value, 2021-2032, (USD Million)

Global EV High-Voltage Gate Driver ICs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global EV High-Voltage Gate Driver ICs consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: EV High-Voltage Gate Driver ICs domestic production, consumption, key domestic manufacturers and share

Global EV High-Voltage Gate Driver ICs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global EV High-Voltage Gate Driver ICs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global EV High-Voltage Gate Driver ICs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global EV High-Voltage Gate Driver ICs 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 EV High-Voltage Gate Driver ICs 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 EV High-Voltage Gate Driver ICs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global EV High-Voltage Gate Driver ICs Market, Segmentation by Type:

High-Side Driver

Low-Side Driver

## Global EV High-Voltage Gate Driver ICs Market, Segmentation by Isolation Type:

Non-isolated

Isolated

## Global EV High-Voltage Gate Driver ICs Market, Segmentation by Package:

SOIC Package

TSSOP Package

Others

## Global EV High-Voltage Gate Driver ICs 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 EV High-Voltage Gate Driver ICs market?
2. What is the demand of the global EV High-Voltage Gate Driver ICs market?
3. What is the year over year growth of the global EV High-Voltage Gate Driver ICs market?
4. What is the production and production value of the global EV High-Voltage Gate Driver ICs market?
5. Who are the key producers in the global EV High-Voltage Gate Driver ICs market?
6. What are the growth factors driving the market demand?

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