

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

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Abstracts

The global Automotive SiC Gate Drivers market size is expected to reach \$ 2481 million by 2032, rising at a market growth of 21.3% CAGR during the forecast period (2026-2032).

In 2025, global Automotive SiC Gate Drivers production reached approximately 100.00 million units, with an average global market price of around USD 6.2 per unit.

The gross profit margin of major companies in the industry is between 34.56%?61.28%.

In 2025, the global production capacity of Automotive SiC Gate Drivers was approximately 131.58 million units.

Automotive SiC Gate Drivers are semiconductor driver devices used to control silicon carbide MOSFETs in electric vehicle inverters, onboard chargers and high-voltage power electronics. They provide fast switching control, isolation, protection, fault detection and gate voltage management for 400V and 800V vehicle platforms. The product improves SiC module efficiency, reliability and safety under high-frequency and high-temperature operation. The market includes automotive-grade isolated and non-isolated SiC gate driver ICs or driver modules, but excludes complete inverters, SiC power modules and general industrial gate drivers not qualified for vehicles.

The industry chain includes semiconductor wafers, analog and mixed-signal IC processes, isolation materials, packaging substrates, leadframes, bonding wires, molding compounds, testing equipment and automotive qualification services. Midstream production covers IC design, wafer fabrication, packaging, electrical testing, protection function validation, thermal cycling, reliability qualification and shipment

testing. Downstream demand comes from EV traction inverters, onboard chargers, DC-DC converters, electric compressors and high-voltage power systems. Growth is driven by 800V platforms, SiC adoption, fast charging, inverter efficiency and automotive electrification.

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

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

Highlights and key features of the study

Global Automotive SiC Gate Drivers total production and demand, 2021-2032, (K Units)

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

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

Global Automotive SiC Gate Drivers consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

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

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

This report profiles key players in the global Automotive SiC 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 Infineon Technologies AG, Texas Instruments Incorporated, STMicroelectronics N.V., NXP Semiconductors N.V., onsemi, Analog Devices, Inc., Renesas Electronics Corporation, ROHM Co., Ltd., Broadcom Inc., NOVOSENSE Microelectronics Co., Ltd., 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 SiC Gate Drivers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 SiC Gate Drivers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive SiC Gate Drivers Market, Segmentation by Type:

Single-Channel SiC Gate Drivers

Dual-Channel SiC Gate Drivers

Multi-Channel SiC Gate Drivers

Global Automotive SiC Gate Drivers Market, Segmentation by Isolation Type:

Isolated SiC Gate Drivers

Non-Isolated SiC Gate Drivers

Integrated Isolation SiC Gate Drivers

Global Automotive SiC Gate Drivers Market, Segmentation by Peak Output Current:

Low Current??5 A?

Medium Current?5.1?10 A?

High Current??10 A?

Global Automotive SiC Gate Drivers Market, Segmentation by Application:

Traction Inverters

On-Board Chargers

DC-DC Converters

Other

Companies Profiled:

Infineon Technologies AG

Texas Instruments Incorporated

STMicroelectronics N.V.

NXP Semiconductors N.V.

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Analog Devices, Inc.

Renesas Electronics Corporation

ROHM Co., Ltd.

Broadcom Inc.

NOVOSENSE Microelectronics Co., Ltd.

Chipanalog Microelectronics Co., Ltd.

Inventchip Technology Co., Ltd.

Key Questions Answered:

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

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