

Global Automotive Semiconductor Market Valued at \$59.7 Billion in 2022, Expected to Reach \$153.9 Billion by 2032

WILMINGTON, NEW CASTLE, DE, UNITED STATES, December 3, 2025 /EINPresswire.com/ -- Allied Market Research published a report, titled, "[Automotive Semiconductor Market](#) by Component (Processor, Analog IC, Discrete Power, Sensor, Memory, Others), Vehicle Type (Passenger Car, Light Commercial Vehicle, Heavy Commercial Vehicle), Propulsion Type (Internal combustion engine, Electric) and Application (Powertrain, Safety, Body Electronics, Chassis, Telematics and Infotainment): Global Opportunity Analysis and Industry Forecast, 2023-2032". The report provides an in-depth analysis of top segments, changing market trends, value chain, key investment pockets, competitive scenario, and regional landscape. The report is an essential and helpful source of information for leading market players, investors, new entrants, and stakeholders in formulating new strategies for the future and taking steps to strengthen their position in the market.

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The global automotive semiconductor market size was valued at USD 59.7 billion in 2022, and is projected to reach USD 153.9 billion by 2032, growing at a CAGR of 10.1% from 2023 to 2032.

Prime determinants of growth

Factors such as Rise in adoption of electric and hybrid vehicles, surge demand for advanced vehicle safety and comfort systems, and intervention of innovative technologies for advanced user interface (UI) boost the growth of the automotive semiconductor market. However, operational failures in extreme climatic conditions and challenges posed by the worldwide chip shortage are anticipated to hinder market growth. On the other hand, increase in demand for advanced power semiconductors for enhanced performance and operational efficiency and rise of autonomous vehicles provide a remarkable growth opportunity for the market players operating in the market.

The Analog IC segment to maintain its leadership status throughout the forecast period

Based on component, the analog IC held the highest market share in 2022, accounting for more than one fourth of the global automotive semiconductor market revenue and is estimated to

maintain its leadership status throughout the forecast period owing to its ability to fulfill wide range of automotive applications. However, the sensor segment is projected to manifest the highest CAGR of 11.5% from 2023 to 2032, as the advance automated features such as sleep detection, autonomous driving, and others installed in vehicle.

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The Passenger Car segment to maintain its leadership status throughout the forecast period

Based on vehicle type, the passenger car segment held the highest market share in 2022, accounting for nearly four-fifth of the global automotive semiconductor market revenue and is estimated to maintain its leadership status throughout the forecast period, owing to increased number of passenger EV and the development of advance technology for driver assistance entertainment and other purposes. However, the heavy commercial vehicle segment is projected to manifest the highest CAGR of 12.0% from 2023 to 2032, owing to the adoption of autonomous functions such as unloading, monitoring loaded goods, and others in heavy commercial vehicles.

The Telematics and Infotainment segment to maintain its lead position during the forecast period

Based on application, the telematics and infotainment segment accounted for the largest share in 2022, contributing to nearly one-third of the global automotive semiconductor market revenue, and is estimated to maintain its leadership status throughout the forecast period, owing to the rise of IoT and AI in automobile infotainment. However, the safety segment is projected to manifest the highest CAGR of 11.0% from 2023 to 2032, owing to the improvement of road safety standards legislation and consumer awareness.

Asia-Pacific to maintain its dominance by 2032

Based on region, Asia-Pacific held the highest market share in terms of revenue in 2022, accounting for nearly two-fifths of the global automotive semiconductor market revenue and is estimated to maintain its leadership status throughout the forecast period. Also, same segment is projected to manifest the highest CAGR of 10.8% from 2023 to 2032. This is owing to the China's remarkable growth through its rapid adoption of electric vehicles and autonomous driving technologies.

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Leading Market Players in Automotive Semiconductor Industry: –

Analog Devices, Inc.
Infineon Technologies AG
Micron Technology, inc.
NXP Semiconductors
Semiconductor Components Industries, LLC. (ON Semiconductor)
Renesas Electronics Corporation
Robert Bosch GmbH
ROHM Co., Ltd.
STMicroelectronics
Texas Instruments Incorporated

The report provides a detailed analysis of these key players of the global automotive semiconductor market. These players have adopted different strategies such as partnership, product launch, expansion and others to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to showcase the competitive scenario.

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We are in professional corporate relations with various companies, and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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