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Automotive Semiconductor Market by Component (Processor, Analog IC, Discrete power device, Sensor), Vehicle Type (Passenger Car, LCV, HCV), Fuel Type (Gasoline, Diesel, EV/HEV), Application (Powertrain, Safety, Chassis) - Global Forecast to 2027

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Abstracts

The automotive semiconductor market is expected to grow from USD 42.9 billion in 2022 and is projected to reach USD 70.0 billion by 2027; it is expected to grow at a CAGR of 10.10% during the forecast period. The high requirement for fuel-efficient cars and the stringent government regulations to lower CO2 emissions led to an increasing number of semiconductors in both traditional vehicles and EVs/HEVs. Governments in many countries are in the process of regulating emissions from internal combustion engine (ICE)-based cars. The adoption of electrified vehicles will lead to a significant rise in demand for new automotive ICs, microprocessors, and semiconductor. Hence, with the inclusion of advanced technologies and new features in vehicles has increased the scope of electrification. As a result, original equipment manufacturers (OEMs) are installing a greater number of ICs, microprocessors, and semiconductor in high-end electric vehicles.

“Market for discrete power device services to have highest CAGR during the forecast period”

There is a significant demand for power electronics in automotive applications as it is a huge sector in terms of the potential use of electrical energy and the diversity of power electronics to solve all the concerns in automotive applications. There is a concentrating effort on providing high-performance engine management systems in the next-generation vehicles. Automotive industry has been undergoing a remarkable change with respect to implementation of power devices in electric vehicles. Power electronics

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is a core technology that controls the energy flow from the battery to the motor and vice versa, and enables this flow to be accomplished as efficiently as possible. In addition to the main traction function, there are also numerous other areas where power electronics is key, for example, the battery charger and the provision of a 12V supply for legacy loads.

“Market for passenger cars to have highest CAGR during the forecast period”

The tipping point in passenger EV adoption occurred in the second half of 2020, when EV sales and penetration accelerated in major markets despite the economic crisis caused by the COVID-19 pandemic. Europe spearheaded this development, where EV adoption reached ~8% due to policy mandates such as stricter emissions targets for OEMs and generous subsidies for consumers. The transformation of passenger cars toward electrification is expected to disrupt the entire supply chain and create a significant shift in market size for automotive semiconductor components.

“Market in China expected to have largest growth globally throughout the forecast period”

As per vehicle production statistics, China was the largest automotive market in the world in 2021. The country is expected to retain its dominance in the automotive semiconductor market during the forecast period. The rising demand for vehicles in the country, coupled with favorable regulations and economic labor costs, has boosted local vehicle production. An increasing number of OEMs are offering advanced automotive electronics in economic vehicle variants. The surging demand for comfort and safety features in today’s vehicles is expected to drive the automotive semiconductor market in China. The Government of China has placed strategic emphasis on plug-in hybrid EVs and pure EVs while promoting the adoption of energy-efficient hybrid vehicles. Their sales are also increasing rapidly. The Chinese government plays a pivotal role in driving R&D and intends to make the country an R&D hub for vehicles and vehicle technologies. Also, China has incentives for electric cars, plug-in hybrids, and fuel-cell vehicles. The use of basic engine semiconductor to lower carbon emissions in passenger cars is also expected to contribute to the growth of the automotive semiconductor market.

The report profiles key players in the automotive semiconductor market with their respective market ranking analysis. Prominent players profiled in this report are Robert Bosch (Germany), Continental (Germany), Infineon Technologies (Germany), NXP Semiconductors (Netherlands), Sensata Technologies (US), Borgwarner, (US), Allegro

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Microsystems (US), DENSO (Japan), Analog Devices (US), ELMOS Semiconductor (Germany), STMicroelectronics (Switzerland), TE Connectivity (Switzerland), Onsemi (US), Renesas Electronics (Japan), ROHM Semiconductor (Japan), Aptiv (Ireland), CTS (US), Autoliv (Sweden), ZF Group (Germany), Quanergy (US), Toshiba (Japan), Magna International (Canada), Melexis (Belgium), Amphenol (US), and Valeo (France).

Research Coverage:

This research report categorizes the automotive semiconductor market on the basis of offering, application, vertical, and geography. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the automotive semiconductor market and forecasts the same till 2027. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the automotive semiconductor ecosystem.

Key Benefits of Buying the Report

The report would help leaders/new entrants in this market in the following ways:

1. This report segments the automotive semiconductor market comprehensively and provides the closest market size projection for all subsegments across different regions.
2. The report helps stakeholders understand the pulse of the market and provides them with information on key drivers, restraints, challenges, and opportunities for market growth.
3. This report would help stakeholders understand their competitors better and gain more insights to improve their position in the business. The competitive landscape section includes competitor ecosystem, product launches, deals, and expansions.
4. The analysis of the top 25 companies, based on the strength of the market rank as well as the product footprint will help stakeholders visualize the market positioning of these key players.

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12 COMPANY PROFILES

*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

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