Automotive Semiconductor Market by Component (Processor, Analog IC, Discrete Power, Sensor, & Memory), Vehicle and Fuel Type, Application (Powertrain, Safety, Body Electronics, Chassis, & Telematics), & Geography - Global Forecast to 2020

Description: The most significant factor driving the automotive semiconductor market is the increasing vehicle production which, in turn, is leading to the rise in demand for automotive semiconductors. Rising trend of vehicle electrification and growing demand for advanced safety, convenience, and comfort systems are the other factors driving the growth of the semiconductor content in the automobiles.

The fastest-growing applications and the major consumers of the semiconductor content in a vehicle are telematics & infotainment, powertrain, and safety. The strict standards and regulations are the generating more demand for semiconductor component in the safety and powertrain applications. On the other hand, the growing competition among the vehicle manufacturers to provide better convenience and comfort to their customers is forcing the automobile manufacturers to use more and more semiconductor components for safety and telematics and infotainment applications.

Discrete power devices is the fastest and memory devices is the second fastest-growing component of the automotive semiconductor market. The reason behind this sharp growth in the market share of the discrete power devices is due to the ongoing electrification of the major applications of the automobile such as powertrain, which is generating more demand for power components such as MOSFET and IGBT. The requirement of the better safety and advanced features in the automobile is giving rise to the necessity of more memory devices per vehicle to program the various control systems into an autonomous one.

The automotive market in the U.S. is inclined towards SUVs and light trucks, owing to their off-road capabilities and better traction in changing weather conditions. The rise in domestic demand has prompted OEMs to invest in expanding production, which has had a direct impact on the automotive semiconductor market. Depreciated oil prices, strict government regulations, rapid technological advancements, and consumption of mainly premium cars are the factors making North America as the fastest-growing region of the automotive semiconductor market.

The breakup of primaries conducted during the study is depicted below:

- By Company Type: Tier 1 Companies - 35%, Tier 2 Companies - 40%, and Tier 3 Companies - 25%
- By Designation: C-Level - 45%, Director Level - 35%, and Manager Level - 20%
- By Region: North America - 30%, Europe - 40%, Asia-Pacific - 20%, and RoW - 10%

Emergence of new concept vehicles such as autonomous cars and connected cars would act as the captivating imperative for the existing players as well as the new entrants. Some of the major players in the automotive semiconductor market are NXP Semiconductors N.V. (Netherlands), Renesas Electronics Corp. (Japan), Infineon Technologies AG (Germany), STMicroelectronics N.V. (Switzerland), Robert Bosch GmbH (Germany), Texas Instruments, Inc. (U.S.), ON Semiconductor Corp. (U.S.), ROHM Co., Ltd. (Japan), Toshiba Corp. (Japan), and Analog Devices Inc. (U.S.) among others.

Reasons to buy the report:

- This report includes the market statistics pertaining to component, vehicle type, fuel type, application, and geography, along with their respective market size.
- The average semiconductor content per vehicle by component, vehicle type, fuel type, application, region, and country is available in the report.
- The Porter’s five forces framework has been utilized, along with the value chain analysis to provide an in-depth insight into the automotive semiconductor market.
- Major drivers, restraints, and opportunities for automotive semiconductor market have been detailed in this report.
- Illustrative segmentation, analysis, and forecast for the markets on the basis component, vehicle type, fuel type, application, and geography have been conducted to give an overall view of the automotive
A detailed competitive landscape includes key players, in-depth analysis, and market share of the key players.

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