

Automotive IC Market Report by Type (Monolithic Integrated Circuits, Hybrid Integrated Circuits), Application (Advanced Driver Assistance System (ADAS), In-Vehicle Networking, Engine Management, Transmission Control System, and Others), and Region 2024-2032

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Abstracts

The global automotive IC market size reached US\$ 54.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 120.3 Billion by 2032, exhibiting a growth rate (CAGR) of 9% during 2024-2032. The increasing demand for autonomous vehicles, rising automation, and the growing focus on driver and passenger safety represent some of the key factors driving the market.

An automotive integrated circuit (IC) is an electronic component designed to operate in harsh conditions encountered in a vehicle, such as high temperatures, vibration, and electromagnetic interference. It comprises microcontrollers, sensors, power management ICs, and communication ICs. It assists in improving the overall performance of a vehicle by enabling more precise control of engine management and transmission control. It is used in infotainment, navigation, and communication systems for enabling drivers to stay connected and access required information and services. It is also utilized in safety critical systems, including airbags, anti lock brakes, and traction control, to ensure safe and reliable operations.

Automotive IC Market Trends:

The increasing demand for hybrid, autonomous, and electric vehicles on account of rapid urbanization and rising disposable incomes currently represent one of the major factors driving the need for more enhanced automotive ICs around the world. Moreover,

the growing use of automation in vehicles, such as automated parking and self driving, is catalyzing the demand for automotive ICs to handle the processing and control requirements. In addition, automotive ICs find application in the advanced driver assistance systems (ADAS) with features, which include lane departure warnings, adaptive cruise control, and collision avoidance systems of vehicles. This, coupled with the rising focus on driver and passenger safety on account of the growing number of fatal road accidents, is influencing the market positively. Apart from this, the increasing usage of data analytics in the automotive industry is resulting in the rising demand for automotive ICs to support the processing and analysis of a large amount of data from sensors, cameras, and other sources. Furthermore, key players are focusing on several marketing strategies, such as partnerships, collaborations, and mergers and acquisitions (M&As) to enhance their geographical presence, which is stimulating the market growth. Besides this, the growing focus on cybersecurity is catalyzing the demand for automotive ICs to offer secure communication and data protection. Additionally, the increasing demand for vehicle electrification to enhance user comfort without impacting vehicle range, significant improvements in the automotive infrastructure, and extensive research and development (R&D) activities are other factors favoring the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global automotive IC market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on type and application.

Type Insights:

Monolithic Integrated Circuits

Hybrid Integrated Circuits

Analog IC

Digital IC

Mixed IC

The report has provided a detailed breakup and analysis of the automotive IC market based on the type. This includes monolithic integrated circuits and hybrid integrated circuits (analog IC, digital IC, and mixed IC). According to the report, hybrid integrated circuits (analog IC, digital IC, and mixed IC) represented the largest segment.

Application Insights:

Advanced Driver Assistance System (ADAS)
In-Vehicle Networking
Engine Management
Transmission Control System
Others

A detailed breakup and analysis of the automotive IC market based on the department has also been provided in the report. This includes advanced driver assistance system (ADAS), in-vehicle networking, engine management, transmission control system, and others. According to the report, engine management accounted for the largest market share.

Regional Insights

North America
United States
Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others) was the largest market for automotive IC. Some of the factors driving the Asia Pacific automotive IC market included marketing strategies, integration of advanced technologies, rising research and development (R&D) activities, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global automotive IC market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Infineon Technologies AG, NXP Semiconductors N.V, Qualcomm Incorporated, Robert Bosch GmbH (Robert Bosch Stiftung GmbH), Rohm Co. Ltd., STMicroelectronics N.V., Texas Instruments Incorporated, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report

1. What was the size of the global automotive IC market in 2023?
2. What is the expected growth rate of the global automotive IC market during 2024-2032?
3. What are the key factors driving the global automotive IC market?
4. What has been the impact of COVID-19 on the global automotive IC market?
5. What is the breakup of the global automotive IC market based on the type?
6. What is the breakup of the global automotive IC market based on the application?
7. What are the key regions in the global automotive IC market?
8. Who are the key players/companies in the global automotive IC market?

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