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Autonomous Driving SoC Market By Level of Autonomy (Level 2, Level 3, Level 4, Level 5) , By Application (Adaptive Cruise Control (ACC) , Lane Keeping Assistance System (LKAS) , Traffic Jam Assist (TJA) , Automated Parking System (APS) , Others) By Vehicle Type (Passenger Vehicles, Commercial Vehicles) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

The autonomous driving system-on-chip (SoC) market was valued at $36.8 billion in 2023, and is projected t%li%reach $100.1 billion by 2033, growing at a CAGR of 10.6% from 2024 t%li%2033.

Autonomous driving system-on-chip (SoC) is a powerful integrated technology that plays a critical role in enabling autonomous functionalities. Autonomous driving SoCs enable vehicles t%li%perceive their surroundings, interpret data from various sensors, and make autonomous navigation decisions. This integration not only enhances the efficiency and reliability of autonomous driving systems but als%li%reduces power consumption and cost, making it a pivotal technology for smart, self-driving cars.

The growth of the global autonomous driving system-on-chip (SoC) market is driven by increase in demand for autonomous vehicles and heightened focus on integrating functional safety features int%li%SoCs t%li%ensure reliable and safe operation in autonomous driving applications. This is crucial for ensuring that ADAS systems operate safely and effectively under various conditions. With increasing installation of this system in vehicles, the risk of accidents is expected t%li%decline drastically.

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According t%li%a recent study conducted by the American Automobile Association (AAA) Foundation for Traffic Safety and the University of North Carolina, ADAS is likely t%li%prevent approximately 37 million crashes and 14 million injuries in the coming 30 years, stretching from 2021 t%li%2050. Furthermore, increase in implementation of 5G networks and vehicle-to-everything (V2X) communication systems t%li%support real-time data exchange for autonomous driving boosts the demand for SoCs. Moreover, rise in penetration of electric vehicles, which often incorporate advanced technology, complements the development of autonomous driving systems, increasing the demand for efficient SoCs. However, developing advanced SoCs with the necessary processing power and functionality for ADAS involves significant R&D investment, which acts as a barrier for the market growth. In addition, complexities associated with integration of multiple ADAS functionalities int%li%a single SoC t%li%ensure reliability and performance hamper the market growth. On the contrary, significant investment and R&D efforts are being directed toward the advancement of autonomous driving SoCs, which are expected t%li%drive innovation and accelerate the market's growth. Manufacturers are focusing on developing smaller process nodes, such as 5nm and below, that will allow for more transistors on a chip, improving performance and efficiency while reducing the physical size of the SoC. Such developments are anticipated t%li%open new avenues for the expansion of the global market during the forecast period.

The global autonomous driving SoC market is segmented int%li%vehicle type, level of autonomy, application, and region. On the basis of vehicle type, the market is divided int%li%passenger vehicles and commercial vehicles. As per level of autonomy, it is segregated int%li%level 2, level 3, level 4, and level 5. By application, it is segregated int%li%adaptive cruise control (ACC), lane keeping assistance system (LKAS), traffic jam assist (TJA), automated parking system (APS), and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of vehicle type, the passenger vehicles segment is expected exhibit notable growth by 2033.

Depending on level of autonomy, the level 5 segment is anticipated t%li%dominate the market during the forecast period.

By application, adaptive cruise control (ACC) is projected t%li%emerge as a leading segment in the coming years.

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Region wise, Europe is likely t%li%lead the market in the near future.

Competition Analysis

Competitive analysis and profiles of the major players in the global autonomous driving SoC market include NVIDIA Corporation, Intel Corporation, Qualcomm Technologies, Inc., Texas Instruments Incorporated, Ambarella Inc, MediaTek Inc., Renesas Electronics Corporation, Xilinx, Inc., NXP Semiconductors N.V., and Infineon Technologies AG. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships t%li%sustain the intense competition and gain a strong foothold in the global market.

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Additional company profiles with specific t%li%client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

SWOT Analysis

Key Market Segments

By Level Of Autonomy

Level 2

Level 3

Level 4

Level 5

By Application

Adaptive Cruise Control (ACC)

Lane Keeping Assistance System (LKAS)

Traffic Jam Assist (TJA)

Automated Parking System (APS)

Others

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By Vehicle Type

- Passenger Vehicles
- Commercial Vehicles

By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- UK
- Germany
- France
- Italy
- Rest of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea

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Rest of Asia-Pacific

Latin America

Brazil

Argentina

Rest of Latin America

Middle East and Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East and Africa

Key Market Players

NVIDIA Corporation

Intel Corporation

Qualcomm Technologies, Inc.

Texas Instruments Incorporated

Ambarella Inc

MediaTek Inc.

Renesas Electronics Corporation

Xilinx, Inc.

NXP Semiconductors N.V.

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