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Global ADAS and Autonomous Driving Component Market: Focus on Component Type, Level of Autonomy, Vehicle Type, Country-Wise Analysis, Autonomous Simulation Software and Supply Chain Analysis - Analysis and Forecast, 2019-2029

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Abstracts

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Key Questions Answered in the Report:

How big is the ADAS and autonomous driving component market in terms of value and volume and what is the CAGR (2019-2029)?

Which companies are the major players in the ADAS and autonomous driving component market? What are the key market strategies being adopted by them?

What is the revenue generated by the different ADAS and autonomous driving component such as camera, ultrasonic sensors, radar, LiDAR, and ECU?

What is the role of autonomous simulation software in ADAS and autonomous driving component market? Who are the major software providers?

Which global factors are changing the dynamics of the ADAS and autonomous driving component market?

What is the revenue generated by the different regions such as North America, Europe, Asia-Pacific, Latin America, and Middle East and Africa?

Global ADAS and Autonomous Driving Component Market Forecast, 2019-2029

The ADAS and Autonomous Driving Component Industry Analysis by BIS Research projects the market to grow at a significant CAGR of 12.51% by value and a CAGR of 13.29% by volume during the forecast period from 2019 to 2029. The ADAS and autonomous driving component market size is estimated at $39.79 billion and 518.6 million units in 2018. The North America region dominated the global ADAS and autonomous driving component market in 2018, whereas the APAC region is expected to have the highest growth rate during the forecast period.

The ADAS and autonomous driving component market is driven by the increasing technological developments and advancements in ADAS systems, rising developments in connected infrastructure and intelligent transportation system, demand of ADAS features in commercial vehicles, and growing concerns and measures over road safety. However, reliability issues, rising cyber threats in autonomous vehicles, high cost associated with LiDARs, and lack of government rules and regulations in developing regions, are limiting the market growth.

Moreover, factors such as impact of 5G technology, increasing adoption of autonomous vehicles in shared mobility, and rising focus towards vehicle platooning are anticipated to create numerous opportunities for the market growth.

Expert Quote

'The Level 1 dominated the global ADAS and autonomous driving component market. This is mainly due to higher penetration of ADAS features such as, adaptive cruise control and automatic emergency braking in both low-end and high-end passenger vehicles. However, the higher demand of high-end ADAS applications and increasing competition among automotive players to launch a fully autonomous vehicle are drastically driving the growth of level 5 vehicles.'

Scope of the Global ADAS and Autonomous Driving Component Market

The report constitutes of an in-depth study of the global ADAS and autonomous driving component market, including a thorough analysis of the types of component, level of autonomy, and vehicle type. The study also presents a detailed analysis of the market dynamics and the estimation of the market size over the forecast period 2019-2029. The scope of this report is focused on the different component type level of autonomy, and vehicle type catering to ADAS and autonomous driving components for different regions. The industry analysis presents a detailed insight about the major market players in the global ADAS and autonomous driving component market using the value chain analysis.

The market analysis includes an in-depth examination of the key ecosystem players and key strategies and developments taking place in this market. It includes the market dynamics (market drivers, opportunities, and challenges) and industry analysis. The purpose of the study is to gain a holistic view of the global ADAS and autonomous driving component market in terms of various factors influencing it. The market has been segmented into ‘component type’, ‘level of autonomy’, ‘vehicle type’, and ‘regions’.

Global ADAS and Autonomous Driving Component Market Segmentation

The ADAS and autonomous driving component market segmentation (on the basis of component type) is further categorized into camera, Radar, LiDAR, ultrasonic sensor, and ECU. The ECU dominated the global ADAS and autonomous driving component market in 2018 and the LiDAR is anticipated to grow at the fastest rate throughout the forecast period (2019-2029).

The ADAS and autonomous driving component market on the basis of level of autonomy is segregated into Level 1, Level 2, Level 3, Level 4, and Level 5. The Level 1 segment dominated the global ADAS and autonomous driving component market in 2018 and the Level 5 segment is anticipated to grow at the fastest rate throughout the forecast period.

The ADAS and autonomous driving component market on the basis of vehicle type is segregated into passenger vehicles, light commercial vehicles, heavy trucks, and heavy buses. The passenger vehicles segment dominated the global ADAS and autonomous driving component market in 2018 and is anticipated to maintain its dominance throughout the forecast period.

The ADAS and autonomous driving component market segmentation by region is segregated under five major regions, such as North America, Europe, APAC, Middle East and Africa, and Latin America. The North America segment dominated the global ADAS and autonomous driving component market in 2018 and is anticipated to maintain its dominance throughout the forecast period.

Key Companies in the ADAS and Autonomous Driving Component Industry

The key market players in the global ADAs and autonomous driving component market include Autoliv Inc., Continental AG, Aptiv PLC, DENSO Corporation, Magna International Inc, Murata Manufacturing Co. Ltd, Quanergy Systems Inc, Robert Bosch GmbH, Valeo, Velodyne Lidar, and ZF Friedrichshafen AG, among others.

Contents

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4 INDUSTRY ANALYSIS

5 GLOBAL ADAS AND AUTONOMOUS DRIVING COMPONENT MARKET (BY COMPONENT)

7 GLOBAL ADAS AND AUTONOMOUS DRIVING COMPONENT MARKET (BY VEHICLE TYPE)

8 GLOBAL ADAS AND AUTONOMOUS DRIVING COMPONENT MARKET (BY REGION)

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10.2 ADAS and Autonomous Driving Component Market Research Methodology

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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