Global ADAS and Autonomous Driving Component Market 2023-2029

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Abstracts

ADAS means an advanced driver assistance system. It includes cameras, radar and LIDAR that capture information from the vehicle's surroundings. The system analyzes information such as vehicle position, pedestrian presence, road signs, lane and driving conditions (low visibility, night driving). According to Gen Consulting Company, the global ADAS and autonomous driving component market is set to achieve an incremental growth of USD 56.7 billion, accelerating at a CAGR of almost 12.4% during the forecast period 2023-2029.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global ADAS and autonomous driving component market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the component, level of autonomy, vehicle type, and region. The global market for ADAS and autonomous driving component can be segmented by component: camera, electronic control unit (ECU), LiDAR, RADAR, ultrasonic sensor, ECU. According to the research, the ECU segment had the largest share in the global ADAS and autonomous driving component market. ADAS and autonomous driving component market is further segmented by level of autonomy: level 1 (driver assistance), level 2 (partial automation), level 3 (conditional automation), level 4 (high automation), level 5 (full automation). In 2022, the level 1 segment made up the largest share of revenue generated by the ADAS and autonomous driving component market. Based on vehicle type, the ADAS and autonomous driving component market is

segmented into: passenger car, light commercial vehicle, heavy trucks, heavy buses. Among these, the passenger car segment was accounted for the highest revenue generator in 2022. On the basis of region, the ADAS and autonomous driving component market also can be divided into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America. North America captured the largest share of the market in 2022.

The RADAR market is further segmented into ultra short-range radar, short-range radar, medium-range radar, long-range radar. Gen Consulting Company research indicates that the short-range radar segment occupied the largest share of this market in 2022 and is expected to draw the highest demand in coming years. Furthermore, the LiDAR market has been categorized into mechanical LiDAR, solid-state LiDAR. Globally, the mechanical LiDAR segment made up the largest share of the ADAS and autonomous driving component market. The camera by function market is further divided into front-view camera, rear-view camera, side-view camera. The rear-view camera segment was the largest contributor to the global ADAS and autonomous driving component market in 2022. The camera by type market is further segmented into monocular camera, stereo-vision camera. Gen Consulting Company research indicates that the stereo-vision camera segment occupied the largest share of this market in 2022 and is expected to draw the highest demand in coming years. Furthermore, the electronic control units (ECUs) market has been categorized into 16-bit ECU, 32-bit ECU, 64-bit ECU. Globally, the 32-bit ECU segment made up the largest share of the ADAS and autonomous driving component market.

Market Segmentation
By component: camera, electronic control unit (ECU), LiDAR, RADAR, ultrasonic sensor, ECU
By level of autonomy: level 1 (driver assistance), level 2 (partial automation), level 3 (conditional automation), level 4 (high automation), level 5 (full automation)
By vehicle type: passenger car, light commercial vehicle, heavy trucks, heavy buses
By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The report also provides analysis of the key companies of the industry and their detailed company profiles including Analog Devices Inc., Aptiv plc, Autoliv Inc., Continental AG, Denso Corporation, Hitachi, Ltd., Hyundai Mobis Co., Ltd., Infineon Technologies AG, Intel Corporation (Mobileye N.V.), LeddarTech Inc., Luminar Technologies Inc., Magna International Inc., MicroVision GmbH (Ibeo Automotive Systems GmbH), Murata Manufacturing Co., Ltd., Nidec Corporation, Ouster, Inc., Quanergy Systems, Inc.,

Robert Bosch GmbH, Texas Instruments Incorporated, Valeo S.A., Velodyne Lidar, Inc., ZF Friedrichshafen AG, among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.
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Scope of the Report
To analyze and forecast the market size of the global ADAS and autonomous driving component market.
To classify and forecast the global ADAS and autonomous driving component market based on component, level of autonomy, vehicle type, region.
To identify drivers and challenges for the global ADAS and autonomous driving component market.
To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global ADAS and autonomous driving component market.
To identify and analyze the profile of leading players operating in the global ADAS and autonomous driving component market.

Why Choose This Report
Gain a reliable outlook of the global ADAS and autonomous driving component market forecasts from 2023 to 2029 across scenarios.
Identify growth segments for investment.
Stay ahead of competitors through company profiles and market data.
The market estimate for ease of analysis across scenarios in Excel format.
Strategy consulting and research support for three months.
Print authentication provided for the single-user license.

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Camera
Electronic control unit (ECU)
LiDAR
RADAR
Ultrasonic sensor
ECU

PART 6. MARKET BREAKDOWN BY LEVEL OF AUTONOMY

Level 1 (driver assistance)
Level 2 (partial automation)
Level 3 (conditional automation)
Level 4 (high automation)
Level 5 (full automation)

PART 7. MARKET BREAKDOWN BY VEHICLE TYPE

Passenger car

Light commercial vehicle

Heavy trucks

Heavy buses

PART 8. MARKET BREAKDOWN BY REGION

North America

Europe

Asia-Pacific

MEA (Middle East and Africa)

Latin America

PART 9. KEY COMPANIES

Analog Devices Inc.

Aptiv plc

Autoliv Inc.

Continental AG

Denso Corporation

Hitachi, Ltd.

Hyundai Mobis Co., Ltd.

Infineon Technologies AG

Intel Corporation (Mobileye N.V.)

LeddarTech Inc.

Luminar Technologies Inc.

Magna International Inc.

MicroVision GmbH (Ibeo Automotive Systems GmbH)

Murata Manufacturing Co., Ltd.

Nidec Corporation

Ouster, Inc.

Quanergy Systems, Inc.

Robert Bosch GmbH

Texas Instruments Incorporated

Valeo S.A.

Velodyne Lidar, Inc.

ZF Friedrichshafen AG

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