

UAE ADAS Market By Vehicle Type (Passenger Car, Commercial Vehicle), By Sensor Type (Radar, Ultrasonic, Camera and LiDAR), By Level of Autonomy (Level 1, Level 2, Level 3, Level 4 and Level 5), By Function (Collision Avoidance, Adaptive Cruise Control, Lane Departure Warning System, Rear Cross Traffic Assistance, Emergency Braking, Intersection Assistance, Automatic Speed Limit Park Assistance and Others), By Region, Competition Forecast & Opportunities, 2018- 2028

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Abstracts

The UAE ADAS Market is anticipated to grow at a robust CAGR in terms of value by 2028. The advanced driver assistance system (ADAS) is made to protect and/or ensure the safety of other road users. The majority of people today prefer to drive vehicles that have advanced technologies installed in them; ADAS includes several characteristics that make driving for drivers easier. Because ADAS focuses on comfort and flexibility while driving, people also prefer to ride in ADAS-equipped vehicles. The installation of ADAS features such as the FCW (Forward Collision Warning), LCA (Lane Change Assistant), ESP (Electronic Stability Program), and ABS (anti-lock braking system) has begun because of the demand for automobiles with ADAS. Sales of ADAS are predicted to increase as these cutting-edge features are adopted more frequently.

With the advancement of autonomous vehicles, automobiles are the cornerstone of the future generation of mobile-connected devices. Systems on a chip are divisions of autonomous application solutions into distinct chips (SoCs). These chips use interfaces

and powerful electronic controller units to link sensors and actuators (ECUs). These software programs and technological advancements are used by self-driving cars to acquire 360-degree vision, both near (within the vehicle's immediate vicinity) and far. This means that hardware designers are utilizing extremely complex process nodes to achieve continuously raising performance goals while also reducing power and footprint requirements.

The sales of passenger cars in the year 2021 were around 1,56,780 units. The sales of new vehicles shot up by 26.4% year-on-year in 2021, and the sales of passenger cars in the year 2020 were around 1,29,901 units. Automotive manufacturers have started to focus on autonomous vehicles by seeing increased demand for advanced features in vehicles.

Rising Safety Concern Among People

Over the next ten years, demand for advanced driver-assistance systems (ADAS), which assist with monitoring, warning, braking, and steering functions, is anticipated to rise, mostly due to consumer and regulatory interest in safety features that safeguard drivers and lower accident rates. In the year 2021, the government of UAE recorded around 2,437 road accidents that happened across the UAE, in which 256 people died. The number of crashes/road accidents also increased in the year 2021 to 3,488, which happened across the country. By seeing this trend, for instance, the UAE government is planning to roll out 4000 self-driving cars by 2030, and the government is planning to make 25% overall fleet of vehicles fully autonomous by 2030. Vehicle buyers in UAE are also showing interest in buying ADAS applications that promote comfort and economy, such as those assisting in monitoring blind spots and parking.

Parking Assistance

One of the main features of ADAS is parking assistance which assists the driver in parking the vehicle; a park assist system combines sensors and cameras. It may determine whether the vehicle will fit into the parking space and its dimensions. Furthermore, certain cutting-edge automated parking assists systems seamlessly adjust the steering wheel and speed as the car is parked, preventing any accidents with nearby cars or objects. The parking system supports both forward and backward parking. Vehicle buyers in UAE find this feature very helpful to them at the time of car parking; people prefer to buy vehicles that have these advanced features.

Lane Departure Warning System (LDWS)

By warning the driver when the vehicle departs from its lane, LDWS assists in preventing crashes with other vehicles coming up from behind. Additionally, it lessens human error-related fatal accidents such as distracted driving, tiredness, and driver error. Most road accidents occur due to the overcrossing of vehicles on the highways or at blind spot accidents; the lane departure warning system helps the drivers to keep the vehicles in the lane and assist them before crashes to avoid the accident. By seeing the advantage of these ADAS features, most of the vehicle buyers in UAE prefer vehicles that have all these advanced features. Seeing the adoption of advanced vehicles in the market, automotive manufacturers are also introducing features like Adaptive Cruise Control, Lane Departure Warning System, Rear Cross Traffic Assistance, Emergency Braking, Intersection Assistance, etc. With the increasing sales of autonomous vehicles, the ADAS market is expected to see growth in the coming years.

Market Segmentation

The UAE ADAS Market is segmented based on vehicle type, sensor type, level of autonomy, function, and region. Based on vehicle type, the market is segmented into passenger cars and commercial vehicles. Based on the sensor type segment, the market is segmented into Radar, Ultrasonic, Camera, and LiDAR. Based on the level of Autonomy, the market is segmented into Level 1, Level 2, Level 3, Level 4, and Level 5. Based on function type, the market is segmented into Collision Avoidance, Adaptive Cruise Control, Lane Departure Warning System, Rear Cross Traffic Assistance, Emergency Braking, Intersection Assistance, Automatic Speed Limit, Park Assistance, and Others. On the basis of regional distribution, the UAE ADAS Market is divided into Dubai, Abu Dhabi, Sharjah, and Rest of the UAE.

Company Profiles

Some of the major players which are operating in UAE ADAS Market are Continental AG, Robert Bosch GmbH, Autoliv Inc, ZF Friedrichshafen, Delphi Automotive PLC, AISIN Corporation, HELLA GmbH & Co. KGaA, ARM Limited, Denso Corporation, Ambarella International LP, Bittium Corporation.

Report Scope:

In this report, UAE ADAS Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

UAE ADAS Market, By Vehicle Type:

Passenger Car

Commercial vehicle

UAE ADAS Market, By Sensor Type:

Radar

Ultrasonic

Camera

LiDAR

UAE ADAS Market, By Level of Autonomy:

Level 1

Level 2

Level 3

Level 4

Level 5

UAE ADAS Market, By Function:

Collision Avoidance

Adaptive Cruise Control

Lane Departure Warning System

Rear Cross Traffic Assistance

Emergency Braking

Intersection Assistance

Automotive Speed Limit

Park Assistance

Others

UAE ADAS Market1, By Region:

Dubai

Abu Dhabi

Sharjah

Rest of UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in UAE ADAS Market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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