

Automotive Electronic Control Unit (ECU) Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global automotive electronic control unit (ECU) market size reached US\$ 79.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 110.2 Billion by 2028, exhibiting a growth rate (CAGR) of 5.4% during 2023-2028.

An automotive electronic control unit (ECU) is embedded in vehicles to control electronic systems and subsystems. It also assists in collecting input from its sensors or other ECUs and relying on actuators to manage the functionalities of automobiles. Some of the commonly integrated automotive ECU are the powertrain control module (PCM), engine control module (ECM), parking aid module, transmission control module (TCM), skid control module, and seat belt control ECU.

Automotive Electronic Control Unit (ECU) Market Trends:

At present, there is a considerable rise in the sales of electric vehicles (EVs) across the globe. This, in confluence with the thriving automotive industry, represents one of the key factors impelling the growth of the market. Moreover, automotive ECU comprises invehicle infotainment (IVI) systems that offer handset integration and head-up display for driver assistance, interior personalization, and cloud-based infotainment. It also enables users to customize their cars and infotainment systems with user experience data, music, apps, themes, and colors of their choice to enhance their driving experience. Besides this, governing authorities of numerous countries are mandating the incorporation of safety systems in a vehicle, including an anti-lock braking system (ABS) and adaptive front lighting system (AFS), to increase road safety. This, coupled with the



increasing adoption of advanced driver-assistance systems (ADAS) in vehicles to reduce vehicular accidents and fatalities, is escalating the demand for automotive ECU around the world. Furthermore, key players operating in the industry are focusing on product innovations to offer better services, which is positively influencing the market. Other factors, including technological advancements and rising safety concerns among the masses, are projected to stimulate the market growth in the upcoming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global automotive electronic control unit (ECU) market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on capacity, vehicle type, propulsion and application.

Breakup by Capacity:

16-Bit ECU

32-Bit ECU

64-Bit ECU

Breakup by Vehicle Type:

Passenger Cars

Commercial Vehicles

Breakup by Propulsion:

Internal Combustion Engine

Hybrid

Battery Electric Vehicle

Breakup By Application:

ADAS and Safety System
Body Control and Comfort System
Infotainment and Communication System
Powertrain System
Others



Breakup by Region:
Broakap by region.
North America
United States
Canada
Ganada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
D
Brazil Mexico
Others
Officis
Middle East and Africa
Competitive Landscape:
The competitive landscape of the industry has also been examined along with the profiles of the key players being Aptiv PLC, Continental AG, DENSO Corporation,

Automotive Electronic Control Unit (ECU) Market: Global Industry Trends, Share, Size, Growth, Opportunity and...



Hitachi Ltd., Magna International Inc., Magneti Marelli S.p.A., Nidec Corporation, NXP Semiconductors N.V., Panasonic Corporation, Pektron Group Limited, Robert Bosch GmbH and ZF Friedrichshafen AG.

Key Questions Answered in This Report:

What was the size of the global automotive electronic control unit (ECU) market in 2022?

What is the expected growth rate of the global automotive electronic control unit (ECU) market during 2023-2028?

What are the key factors driving the global automotive electronic control unit (ECU) market?

What has been the impact of COVID-19 on the global automotive electronic control unit (ECU) market?

What is the breakup of the global automotive electronic control unit (ECU) market based on the capacity?

What is the breakup of the global automotive electronic control unit (ECU) market based on the vehicle type?

What is the breakup of the global automotive electronic control unit (ECU) market based on the propulsion?

What is the breakup of the global automotive electronic control unit (ECU) market based on the application?

What are the key regions in the global automotive electronic control unit (ECU) market? Who are the key players/companies in the global automotive electronic control unit (ECU) market?



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