

Vehicle Control Unit - Global Market Outlook (2018-2027)

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Abstracts

According to Statistics MRC, the Global Vehicle Control Unit market accounted for \$2.43 billion in 2018 and is expected to reach \$11.74 billion by 2027 growing at a CAGR of 19.1% during the forecast period. Some of the key factors such as increasing adoption rate of electric vehicles and technological advancements in-vehicle electronics, battery management systems etc., are driving the market growth. However, the higher cost of creating all the needed hardware boards act as the restraining factors for market growth. Moreover, programmable and flexible VCU's will provide ample opportunities for market growth.

The Vehicle Control Unit (VCU) is a device that reads the signals of the sensor, for instance, charger connection and it then acts to balance the system energy, brakes, control the motor and the charging system up to charger lock. It also ensures a fail-operational function for highly automated driving (HAD) solutions. Its function is to coordinate powertrain controllers or partially host their functionality. This includes for example inverter control, battery management, charging control as well as vehicle functions that are today located in transmission and engine control.

By component type, the software segment is going to have a lucrative growth during the forecast period. The software can be reprogrammed over the air (OTA) utilizing SOTA and FOTA protocols. Due to this, VCU is very flexible, adaptable and can fit into any vehicle system with the assistance of required programming. By geography, Europe is going to have a lucrative growth during the forecast period as it is a key region for developments, significant R&D, and technological advancements in electric vehicles, advanced automotive systems, and charging solutions. The rising demand for advanced automotive features in electric vehicles and electrification of automotive components are driving the market growth in the region.

Some of the key players in Vehicle Control Unit market include Robert Bosch GmbH, Autonomous Solutions Inc., Stmicroelectronics, PI Innovo, IET SPA, Aim Technologies, Embitel, Mitsubishi Electric Corporation, Continental AG, Rimac Automobili, Texas Instruments, and Pues Corporation.

Vehicle Types Covered:

Passenger Car

Commercial Vehicle

Capacity Types Covered:

16-Bit

32-Bit

64-Bit

Functions Covered:

Autonomous Driving/Advanced Driver-Assistance Systems (ADAS)

Predictive Technology

Component Types Covered:

Hardware

Software

Voltage Types Covered:

12/24V

36/48V

Electric Two-Wheeler Types Covered:

E-Scooter/Moped

E-Motorcycle

Communication Technology Types Covered:

Controller Area Network (CAN)

Local Interconnect Network (LIN)

Flexray

Ethernet

Propulsion Types Covered:

Battery Electric Vehicle (BEV)

Hybrid Electric Vehicle (HEV)

Plug-in Hybrid Electric Vehicle (PHEV)

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub-segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic analysis: Drivers and Constraints, Product/Technology Analysis, Porter's five forces analysis, SWOT analysis etc.

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances.

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