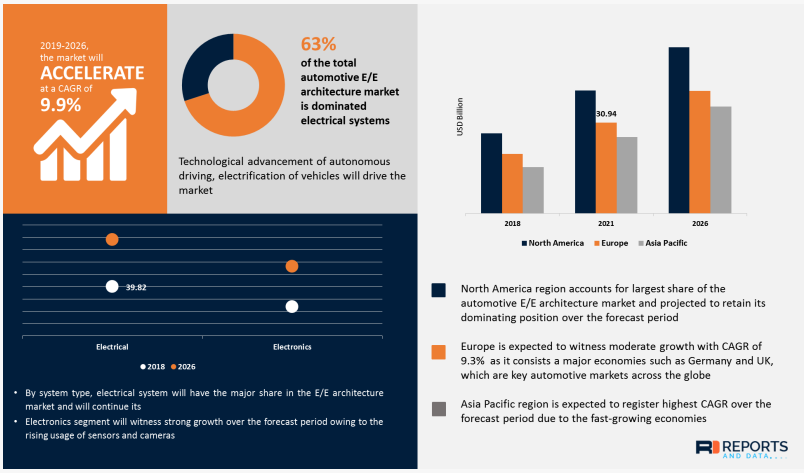
Automotive E/E Architecture Market is growing at a CAGR OF 9.9% during 2018- 2027 | Reports and Data

The automotive E/E architecture market was valued at USD 63.2 billion in 2018 and is expected to grow at a CAGR of 9.9% CAGR during the forecast period.

NEW YORK CITY, NEW YORK, UNITED STATES, March 9, 2020 /EINPresswire.com/ -- Market Summary

The automotive E/E architecture market was valued at USD 63.2 billion in 2018 and is expected to grow at a CAGR of 9.9% CAGR during the forecast period (from 2018 – 2026). The growth is majorly attributed to the rising electrification of the vehicles, connected cars, autonomous driving. Further, increasing usage of cameras, sensors application in the ADAS, DMS, HMI, V2X technology will have positive impact on the automotive E/E architecture market.



automotive E/E architecture market

Reports and Data

With the ever-rising requirements on car performance, as well as the trend of the vehicle, becoming an integral part of a broader ecosystem involving intelligent transportation, automated driving, and smart city, more and more automotive E/E architecture systems are integrated into the vehicles. Automotive E/E architecture is the major part of E/E components. The evolution of automotive E/E architecture, the influence of the latest technology trends, including automated driving, electrification, and connectivity functions on automotive E/E architecture

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From the last few decades, the communication of electrical and electronics circuits in several private and commercial vehicles is rising swiftly across the globe. The electric/electronics (E/E) architecture is responsible for input/output operations with the help of ECU (Electronic Control Units). The hugely rising automation in the automotive sector is anticipated to serve several crucial opportunities for automotive E/E architecture. Further, this integrated E/E architecture concentrated overall computational power in one place.

Autonomous vehicle (AV) technology is the prime factor that directs the growth of the automotive E/E architecture market. The ongoing innovations in the self-driving vehicles are

force automotive OEMs to introduce the next generation automotive E/E architecture to support automation. The quickly growing computational power is challenging to operate with the traditional ECUs. Therefore, the centralized computation based E/E architecture helps to manage computational power more efficiently. Besides, the expanding popularity of driver assistance (ADAS) and vehicle to everything connectivity (V2X) technologies are providing to the growth of the automotive E/E architecture market. The continuing emergence of upgrade technologies in the automotive domain is expected to the massive demand for the E/E architectures shortly

Key Coverage of the Report

•Region and country-wise assessment from the period 2016-2026. For the study, 2016-2017 has been utilized as historical data, 2018 as the base year, and 2019-2026, has been derived as forecasts for the Domain Control Unit market.
•Regional Competitors pipeline analysis of the Domain Control Unit
•Demand and Supply GAP Analysis of the Domain Control Unit market
•Market share analysis of the key industry players
•Strategic recommendations for the new entrants
•Market forecasts for a minimum of 6 years of all the mentioned segments, and the regional markets
•Industry Trends (Drivers, Constraints, Opportunities, Threats, Challenges, and recommendations) of the Domain Control Unit market
•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 in the Domain Control Unit industry

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Salient Trends of the Market

•Currently, the current automotive E/E architecture is one which predicts the distributed functionality, distributed hardware which matched to specific software to achieve that functionality, and extensive wiring and communications
oIn coming years E/E architecture will include high performance computers (HPCs) and connection to the cloud. In this architecture there could be one high performance computer managing human-machine interface (HMI), body, powertrain, and chassis. There is a connection to an ECU that is responsible for latency and safety-critical functions
•According to the analysis by Continental, with the advancement in the automotive E/E architecture, OEMs can save up-to 25% in the wiring
•Toyota, one of the world's largest carmakers, announcing plans to offer electrified vehicles across its entire Toyota and Lexus line-up by 2025, with a goal of selling 5.5 million electrified vehicles annually by 2030
•According to Luca Ambroggi, high-end cars will contain more than $6,000 worth of electronics in next few years

Companies Considered and Profiled

Robert Bosch, Hitachi, Continental AG, ZF, Omron, Aptiv, Visteon, Valeo, Hella, Magna and others

To identify the key trends in the industry, click on the link below:
https://www.reportsanddata.com/report-detail/automotive-ee-architecture-market

Market-o-Nomics

•Automotive E/E Architecture market is expected to reach 134.4 billion by the end of 2026

•By system type, electronics segment will witness strong growth over the forecast period owing to the rising usage of sensors and cameras
•By structure, currently OEMs are using domain centralized architecture but with the advancement in technology of driverless vehicles, vehicle centralized architecture will witness steady market growth
•By component type, hardware segment holds the significant market share and will continue its dominance over the forecast period
•North America region is expected to dominate the automotive E/E architecture market with the largest market share

Automotive E/E Architecture Market by System Type (Revenue, USD Million; 2016–2026)

•Electrical
•Electronics

Automotive E/E Architecture Market by Structure (Revenue, USD Million; 2016–2026)

•Distributed Architecture
•Domain Centralized Architecture
•Vehicle Centralized Architecture

Automotive E/E Architecture by Component (Revenue, USD Million; 2016–2026)

•Hardware
•Software

Automotive E/E Architecture by Vehicle Type (Revenue, USD Million; 2016–2026)

•Passenger Vehicle
•Commercial Vehicles
oLCV
oM&HCV

Automotive E/E Architecture by Propulsion (Revenue, USD Million; 2016–2026)

•ICE
•Electric Vehicles

Automotive E/E Architecture Market by Region (Revenue, USD Million; 2016–2026)

•North America
oUS
oCanada
oMexico
•Europe
oGermany
oFrance
oUK
oSpain
oItaly
oPoland
oBenelux
oRest of the Europe
•Asia Pacific
oChina
oIndia

- Japan
- South Korea
- Singapore
- Rest of Asia-Pacific
- Middle East and Africa
  - Israel
- Latin America
  - Brazil
  - Argentina
  - Rest of Latin America

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Contact Us:
John Watson
Head of Business Development
Reports And Data | Web: www.reportsanddata.com
Direct Line: +1-212-710-1370
E-mail: sales@reportsanddata.com

John Watson
Reports and Data
+12127101370
email us here
Visit us on social media:
Facebook
Twitter
LinkedIn
