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Automotive Cybersecurity Market by Security Type (Application Security, Wireless Network Security, Endpoint Security), Form (In-Vehicle, External Cloud Services), Vehicle Type (Passenger Car, Commercial Vehicle, Electric Vehicle), Application (ADAS and Safety, Body Control and Comfort, Infotainment, Telematics, Powertrain Systems, and Others), and Region 2023-2028

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Abstracts

Market Overview:

The global automotive cybersecurity market size reached US$ 2.61 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 8.11 Billion by 2028, exhibiting a growth rate (CAGR) of 20.25% during 2023-2028. The increasing connectivity of vehicles, the development of intelligent transport systems, and advancements in autonomous vehicles represent some of the key factors driving the market.

Automotive cybersecurity refers to the protection of vehicles and their electronic systems from unauthorized access, hacking, and other malicious activities. It is widely used to protect against cyber threats, such as theft of personal data and manipulation of critical systems, including brakes, steering, engine control units, infotainment systems, and telematics systems. Automotive cybersecurity offers secure communication, authentication and authorization, encryption, resilience, intrusion detection and prevention, and real-time monitoring. It also helps to protect personal data stored in a vehicle, such as location data, contacts, and other sensitive information, from being

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stolen or accessed without permission. Automotive cybersecurity assists in improving customer trust and vehicle performance, increasing efficiency, and enhancing vehicle safety and monitoring.

Automotive Cybersecurity Market Trends:

The increasing connectivity of vehicles across the globe is one of the key factors creating a positive outlook for the market. In line with this, the widespread adoption of advanced driver assistance systems (ADAS) to help drivers in navigation, improving operations, avoiding accidents, reducing travel delays, and enhancing overall mobility is favoring the market growth. Moreover, the increasing demand for electronics components in the automotive industry for various applications, including telematics, body, powertrain, communication electronics, and infotainment, is acting as another growth-inducing factor. Apart from this, the utilization of cloud and mobile computing that comprises open application programming interfaces (APIs) that recognize and connect to vehicles enabling a seamless flow of data across mobility systems, life cycle management, data security, and load balancing, is providing an impetus to the market growth. Additionally, original equipment manufacturers (OEMs) are focusing on the adoption of real-time operating systems (RTOS) platforms that are designed to handle multiple processes at one time and enhance security is propelling the market growth. Furthermore, the growing concerns over cyber-attacks and the increasing need for cybersecurity solutions that can protect against them, are providing a considerable boost to the market growth. Besides this, the widespread adoption of cybersecurity solutions due to the emergence of the Internet of Things (IoT) technology in the automotive industry is positively influencing the market growth. Other factors, including increasing awareness of cybersecurity risks, development of intelligent transport systems, advancements in autonomous vehicles, and the implementation of various government initiatives to incorporate a variety of safety features, including a rear-view camera, automatic braking, lane departure warning system, and electronic stability control, are anticipated to drive the market growth further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global automotive cybersecurity market, along with forecasts at the global, regional, and country level from 2023-2028. Our report has categorized the market based on security type, form, vehicle type, and application.

Security Type Insights:

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Application Security
Wireless Network Security
Endpoint Security

The report has provided a detailed breakup and analysis of the automotive cybersecurity market based on the security type. This includes application, wireless network, and endpoint security. According to the report, wireless network security represented the largest segment.

Form Insights:

In-Vehicle
External Cloud Services

The report has provided a detailed breakup and analysis of the automotive cybersecurity market based on the form. This includes in-vehicle, and external cloud services. According to the report, in-vehicle represented the largest segment.

Vehicle Type Insights:

Passenger Car
Commercial Vehicle
Electric Vehicle

The report has provided a detailed breakup and analysis of the automotive cybersecurity market based on the vehicle type. This includes passenger car, commercial vehicle, and electric vehicle. According to the report, passenger car represented the largest segment.

Application Insights:

ADAS and Safety
Body Control and Comfort
Infotainment
Telematics

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Powertrain Systems
Others

The report has provided a detailed breakup and analysis of the automotive cybersecurity market based on the application insights. This includes ADAS and safety, body control and comfort, infotainment, telematics, powertrain systems, and others. According to the report, infotainment represented the largest segment.

Regional Insights:

North America

United States
Canada

Europe

Germany
France
United Kingdom
Italy
Spain
Russia
Others

Asia Pacific

China
Japan
India
South Korea
Australia
Indonesia
Others

Latin America

Brazil

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Mexico
Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets that include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and Middle East and Africa. According to the report, North America was the largest market for automotive cybersecurity. Some of the factors driving the North America automotive cybersecurity market included the widespread adoption of advanced driver assistance systems (ADAS), various technological advancements, and the implementation of stringent government regulations regarding the incorporation of safety features in automobiles.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global automotive cybersecurity market. Detailed profiles of all major companies have also been provided. Some of the companies covered include Aptiv PLC, Capgemini SE, Continental AG, DENSO Corporation, GuardKnox, HARMAN International (Samsung Electronics Co. Ltd.), Karamba Security Ltd., NXP Semiconductors N.V., Upstream Security Ltd., Vector Informatik GmbH, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:
How has the global automotive cybersecurity market performed so far and how will it perform in the coming years?
What are the drivers, restraints, and opportunities in the global automotive cybersecurity market?
What are the key regional markets?
Which countries represent the most attractive automotive cybersecurity markets?
What is the breakup of the market based on the security type?
What is the breakup of the market based on form?
What is the breakup of the market based on vehicle type?
What is the breakup of the market based on the application?

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What is the competitive structure of the global automotive cybersecurity market?
Who are the key players/companies in the global automotive cybersecurity market?

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