

Automotive Cybersecurity Market - A Global and Regional Analysis: Focus on Product, Application, and Country Analysis - Analysis and Forecast, 2022-2031

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Abstracts

Automotive Cybersecurity Market Overview

The automotive cybersecurity market was valued at \$2.76 billion in 2022, and it is expected to grow at a CAGR of 22.97% and reach \$17.73 billion by 2031. The growth in the automotive cybersecurity market is expected to be driven by the increasing use of electronics per vehicle, the growing number of connected vehicles, rising cyber threats owing to the increase in data and connectivity of vehicles, and rising sales of electric vehicles.

Market Lifecycle Stage

The automotive cybersecurity market is still in a nascent phase. Latest advancements in connected and autonomous vehicles and the growing number of electronic control units (ECUs) in electric vehicles are majorly responsible for the rapid growth of this market. Automotive cybersecurity solution providers are increasingly partnering with other key stakeholders in the automotive cybersecurity ecosystem to expand their global footprint. Moreover, the rising number of cyber-attacks is increasingly impacting automotive original equipment manufacturers (OEMs), resulting in significant financial losses. Leading automotive OEMs have also been working on automotive cybersecurity solutions in-house to provide an extra or added layer of vehicle security for their offerings. With increased adoption of connected vehicles being anticipated during the forecast period, the competition among established and emerging companies in the automotive cybersecurity solutions market is likely to continue growing to maintain

leading market positions in the automotive cybersecurity industry.

Impact

The automotive cybersecurity market is driven by several factors, such as the rising number of ECUs in electric vehicles for enhanced performance and increased sophistication, the increasing number of cyber-attacks in the automotive industry, and the growing adoption of connected and autonomous vehicles.

Automotive cybersecurity solution providers are partnering with other key stakeholders and investing significantly toward the development of advanced automotive cybersecurity solutions to mitigate the growing number of cyber-attack vectors. With growing concerns regarding vehicle security amongst automotive OEMs, the automotive cybersecurity market is expected to grow significantly during the forecast years.

Market Segmentation

Segmentation 1: by Application

Communication

Advanced Driver Assistance System (ADAS) and Safety System

On-Board Diagnostic (OBD)

Infotainment

Telematics

EV Charging Station

Others

Based on application, the ADAS and safety system segment dominated the global automotive cybersecurity market in 2021. This was due to the growing penetration of ADAS in mid and high-end vehicles and the high importance of ADAS and safety systems in partially and fully autonomous/driverless vehicles.

Segmentation 2: by Vehicle Type

Passenger Vehicle

Commercial Vehicle

Based on vehicle type, the passenger vehicle segment accounted for a majority stake in the automotive cybersecurity market in 2021, owing to the rapid adoption of cybersecurity solutions in passenger cars for vehicle security.

Segmentation 3: by Level of Autonomy

Level 1

Level 2

Level 3

Level 4

Level 5

Based on the level of autonomy, the Level 2 segment dominated the automotive cybersecurity market in 2021, owing to the growing number of vehicles with Level 2 autonomy that use automotive cybersecurity solutions.

Segmentation 4: by Security Type

Network Security

Software Security

Cloud Security

Hardware Security

Based on security type, the software security segment dominated the global automotive cybersecurity market in 2021. This was due to the increasing focus of automotive OEMs on software-defined vehicle approaches and growing attack vectors against software solutions used in vehicles.

Segmentation 5: by Form

In-Vehicle

External Cloud Services

The in-vehicle automotive cybersecurity solution segment dominated the automotive cybersecurity market in 2021 and is expected to continue doing so in the coming years during the forecast period.

Segmentation 6: by Region

North America

Europe

U.K.

China

Asia-Pacific and Japan

Rest-of-the-World

Europe held the largest market share in the automotive cybersecurity market in 2021. The region is one of the largest markets for connected and autonomous vehicles and is home to some of the major players operating in the automotive cybersecurity market. Moreover, the adoption of automotive cybersecurity regulations, primarily by the European Union (EU) member nations, is further expected to boost the growth of the market in the region. These regulations are aimed at paving the way for connected and autonomous vehicles (CAVs) and dealing with the cybersecurity threats associated with connected vehicles.

Recent Developments in the Automotive Cybersecurity Market

In October 2022, Denso Corporation, in collaboration with NTT Communications Corporation, announced the development of the vehicle security operation center (VSOC) in response to the increasing cyber threats against vehicles.

In September 2022, Argus Cyber Security Ltd. and Elektrobit launched EB zoneo SwithCore Shield pre-integrated solution embedded with intrusion detection and prevention system (IDPS) functionality with advanced network management systems for the next generation of vehicles.

In March 2020, ESCRYPT GmbH collaborated with the security division of NTT Ltd. to provide joint solutions, enabling the cyber resilience of vehicle fleets.

In March 2020, Argus Cyber Security Ltd. worked in collaboration with NXP Semiconductors to launch an integrated solution, enabling vehicles to protect Ethernet network communications. The solution uses Argus's Ethernet intrusion detection system (IDS) and NXP's S32G processor, which protects ADAS and modern service-oriented gateways, along with other mobility innovations.

In February 2020, Karamba Security launched its product XGuard 2.0, which is an embedded self-protection solution for automotive ECUs to protect the PikeOS hypervisor.

In January 2018, HARMAN launched new detection capabilities for the HARMAN SHIELD solution for protecting semi-autonomous and autonomous vehicles from cyberattacks aimed at vehicle sensors.

Demand - Drivers and Limitations

Following are the demand drivers for the automotive cybersecurity market:

Increase in Use of Electronics Per Vehicle and Growing Number of Connected Vehicles

Rising Cyber Threats owing to Increase in Data and Connectivity of the Vehicles

Rising Sales of Electric Vehicles

Following are the challenges for the automotive cybersecurity market:

Growing Complexity and Increase in Number of Electronics in Vehicles

Financial Impacts due to Vulnerability and Growing Motivation of Cyberhackers

Highly Complex Ecosystem with the Presence of Multiple Stakeholders

How can this report add value to an organization?

Product/Innovation Strategy: Globally, the leading and emerging automotive cybersecurity solution providers are continuously working to make their vehicles more secure than ever. The threat of unauthorized access and vehicle data theft are among some of the most talked about concerns in the automotive cybersecurity industry. The players operating in the automotive cybersecurity market have been working on the development of advanced vehicle cybersecurity solutions using artificial intelligence (AI), machine learning (ML), blockchain, and hardware authentication technologies and techniques. These innovative automotive vehicle cybersecurity solutions are expected to mitigate the growing number of cyber-attacks on vehicles.

Growth/Marketing Strategy: The automotive cybersecurity market has been growing at a rapid pace. The market offers enormous opportunities for existing and emerging market players. Some of the strategies covered in this segment are product launches, partnerships, collaborations, business expansions, and investments. The strategies preferred by companies to maintain and strengthen their market position primarily include product launches, partnerships, and collaborations.

Competitive Strategy: The key players in the automotive cybersecurity market analyzed and profiled in the study include automotive cybersecurity solution providers that develop, maintain, and market automotive cybersecurity solutions. Moreover, a detailed competitive benchmarking of the players operating in the automotive cybersecurity market has been done to help the reader understand the ways in which players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on inputs gathered from primary experts and analyzing company coverage, product portfolio, and market penetration.

The public companies operating in the global automotive cybersecurity market accounted for around 60% of the market share in 2021, while the private companies operating in the market captured around 40% of the market share.

Key Companies Profiled

Private Companies

Argus Cyber Security Ltd.

ESCRYPT GmbH

Karamba Security

ARILOU Automotive Cybersecurity

Vector Informatik GmbH

Mocana Corporation

Green Hills Software

Irdeto

Public Companies

Lear Corporation

DENSO Corporation

HARMAN International

Broadcom Inc.

Garrett Motion Inc.

Aptiv PLC

NXP Semiconductors

Synopsys, Inc.

Start-Ups Operating in the Automotive Cybersecurity Market Ecosystem

Upstream Security Ltd.

Guardknox Cyber-Technologies Ltd.

C2A-SEC LTD

SafeRide Technologies Ltd.

VicOne Inc.

Contents

1 MARKETS

1.1 Industry Outlook

1.1.1 Supply Chain

1.1.2 Industry Trends

1.1.2.1 Increasing Adoption of the Connected Vehicle and Autonomous Driving Technology by Manufacturers

1.1.2.2 Increasing Focus on V2X Equipped Vehicles in the Connected Vehicle Industry

1.1.2.3 Growing Demand for Cloud-Based Applications in the Automotive Industry

1.1.3 Ecosystem/Ongoing Programs

1.1.3.1 Consortiums, Associations, and Regulatory Bodies

1.1.3.2 Government Programs and Initiatives

1.1.3.3 Programs by Research Institutions and Universities

1.1.4 Regulatory Landscape

1.1.4.1 North America

1.1.4.1.1 U.S. National Highway Traffic Safety Administration (NHTSA)

1.1.4.1.2 Transport Canada

1.1.4.2 Europe

1.1.4.2.1 European Union (EU)

1.1.4.2.2 Federal Office for Information Security - Germany

1.1.4.3 China

1.1.4.4 Asia-Pacific and Japan

1.1.4.5 U.K.

1.1.5 Automotive Cybersecurity Standards

1.1.5.1 ISO/SAE 21434

1.1.5.2 UNECE UN R155 and UN R156

1.1.5.3 MIIT CN ICV Access Guide

1.1.6 Key Patent Mapping

1.1.7 Roadmap of the Automotive Cybersecurity Market

1.2 Analysis of Prominent Automotive Cybersecurity Threats

1.2.1 Brute Force Attack

1.2.2 Phishing Attacks

1.2.3 Ransomware Attacks

1.2.4 Exploiting EV Charging Stations

1.2.5 Telematics Cybersecurity

1.2.6 Keyless Car Theft

- 1.2.7 Hacking Infotainment Systems
- 1.3 Automotive Cybersecurity Attack Vectors
 - 1.3.1 Infotainment
 - 1.3.2 Grid Charging (EV Charging Station)
 - 1.3.3 OBD Tools
 - 1.3.4 Radar
 - 1.3.5 Camera
 - 1.3.6 Network Connectivity and Cloud Servers
 - 1.3.6.1 Connected Vehicle Technology and Communication Systems
 - 1.3.6.1.1 Vehicle-to-Infrastructure (V2I)
 - 1.3.6.1.2 Vehicle-to-Vehicle (V2V)
 - 1.3.6.1.3 Global Navigation Satellite System (GNSS)
 - 1.3.6.2 Communication Channels
 - 1.3.6.2.1 Internet of Things
 - 1.3.6.2.2 Cloud Servers
- 1.4 Case Study
 - 1.4.1 Case Study 1: Security Risk Assessment to Enable Safe Digital Growth
 - 1.4.2 Case Study 2: Securing V2X Communications with HSM
 - 1.4.3 Case Study 3: Threat Assessment for Connected Vehicles
 - 1.4.4 Case Study 4: Secure Remote Firmware Updates and ECU Integrity Protection
 - 1.4.5 Case Study 5: Vehicle Electrical/Electronic (EE) Architectures
- 1.5 Business Dynamics
 - 1.5.1 Business Drivers
 - 1.5.1.1 Increase in Use of Electronics Per Vehicle and Growing Number of Connected Vehicles
 - 1.5.1.2 Rising Cyber Threats owing to Increase in Data and Connectivity of the Vehicles
 - 1.5.1.3 Rising Sales of Electric Vehicles
 - 1.5.2 Business Restraints
 - 1.5.2.1 Growing Complexity and Increase in Number of Electronics in Vehicles
 - 1.5.2.2 Financial Impacts due to Vulnerability and Growing Motivation of Cyberhackers
 - 1.5.2.3 Highly Complex Ecosystem with the Presence of Multiple Stakeholders
 - 1.5.2.4 High Costs of Automotive Cybersecurity Solutions
 - 1.5.2.5 Semiconductor Shortage Effect
 - 1.5.3 Business Strategies
 - 1.5.3.1 Product Developments
 - 1.5.3.2 Market Development
 - 1.5.4 Corporate Strategies

- 1.5.4.1 Partnerships, Joint Ventures, Collaborations, and Alliances
- 1.5.4.2 Mergers and Acquisitions
- 1.5.5 Business Opportunities
 - 1.5.5.1 Rising Demand for Advanced Cybersecurity Solutions and Technological Developments in Autonomous Vehicles
 - 1.5.5.2 Introduction of Electric Vehicle Wireless Battery Management
- 1.5.6 COVID-19 Impact on the Automotive Cybersecurity Market

2 APPLICATION

- 2.1 Automotive Cybersecurity Market – Applications and Specifications
 - 2.1.1 Automotive Cybersecurity Market (by Application)
 - 2.1.1.1 Communication
 - 2.1.1.2 Advanced Driver Assistance System (ADAS) and Safety System
 - 2.1.1.3 On-Board Diagnostic (OBD)
 - 2.1.1.4 Infotainment
 - 2.1.1.5 Telematics
 - 2.1.1.6 EV Charging Station
 - 2.1.1.7 Others
 - 2.1.2 Automotive Cybersecurity Market (by Vehicle Type)
 - 2.1.2.1 Passenger Vehicle
 - 2.1.2.1.1 Electric Vehicles (EVs)
 - 2.1.2.1.2 Internal Combustion Engine (ICE) Vehicles
 - 2.1.2.2 Commercial Vehicle
 - 2.1.2.2.1 Electric Vehicles (EVs)
 - 2.1.2.2.2 Internal Combustion Engine (ICE) Vehicles
 - 2.1.3 Automotive Cybersecurity Market (by Level of Autonomy)
 - 2.1.3.1 Level
 - 2.1.3.2 Level
 - 2.1.3.3 Level
 - 2.1.3.4 Level
 - 2.1.3.5 Level
- 2.2 Automotive Cybersecurity Market: Demand Market Analysis
 - 2.2.1 Demand Analysis of Automotive Cybersecurity Market (by Application)
 - 2.2.1.1 Communication
 - 2.2.1.2 Advanced Driver Assistance System (ADAS) and Safety System
 - 2.2.1.3 On-Board Diagnostic (OBD)
 - 2.2.1.4 Infotainment
 - 2.2.1.5 Telematics

- 2.2.1.6 EV Charging Station
- 2.2.1.7 Others
- 2.2.2 Demand Analysis of Automotive Cybersecurity Market (by Vehicle Type)
 - 2.2.2.1 Passenger Vehicle
 - 2.2.2.1.1 Passenger Internal Combustion Engine (ICE) Vehicles
 - 2.2.2.1.2 Passenger Electric Vehicles (EVs)
 - 2.2.2.2 Commercial Vehicle
 - 2.2.2.2.1 Commercial Internal Combustion Engine (ICE) Vehicles
 - 2.2.2.2.2 Commercial Electric Vehicles (EVs)
- 2.2.3 Demand Analysis of Automotive Cybersecurity Market (by Level of Autonomy)
 - 2.2.3.1 Level
 - 2.2.3.2 Level
 - 2.2.3.3 Level
 - 2.2.3.4 Level
 - 2.2.3.5 Level

3 PRODUCTS

- 3.1 Automotive Cybersecurity Market – Products and Specifications
 - 3.1.1 Automotive Cybersecurity Market (by Security Type)
 - 3.1.1.1 Network Security
 - 3.1.1.2 Software Security
 - 3.1.1.3 Cloud Security
 - 3.1.1.4 Hardware Security
 - 3.1.2 Automotive Cybersecurity Market (by Form)
 - 3.1.2.1 In-Vehicle
 - 3.1.2.2 External Cloud Services
- 3.2 Demand Analysis of Automotive Cybersecurity Market
 - 3.2.1 Demand Analysis of Automotive Cybersecurity Market, Value Data (by Security Type)
 - 3.2.1.1 Network Security
 - 3.2.1.2 Software Security
 - 3.2.1.3 Cloud Security
 - 3.2.1.4 Hardware Security
 - 3.2.2 Demand Analysis of Automotive Cybersecurity Market, Value Data (by Form)
 - 3.2.2.1 In-Vehicle
 - 3.2.2.2 External Cloud Services
- 3.3 Product Benchmarking: Growth Rate-Market Share Matrix
 - 3.3.1 Opportunity Matrix (by Region)

3.3.2 Opportunity Matrix (by Security Type)

4 REGIONS

4.1 North America

4.1.1 Market

4.1.1.1 Buyer Attributes

4.1.1.2 Key Solution Providers in North America

4.1.1.3 Business Challenges

4.1.1.4 Business Drivers

4.1.2 Applications

4.1.2.1 North America Automotive Cybersecurity Market Demand (by Application), Value Data

4.1.2.2 North America Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data

4.1.3 Products

4.1.3.1 North America Automotive Cybersecurity Market Demand (by Security Type), Value Data

4.1.3.2 North America Automotive Cybersecurity Market Demand (by Form), Value Data

4.1.4 North America (by Country)

4.1.4.1 U.S.

4.1.4.1.1 Market

4.1.4.1.1.1 Buyers Attributes

4.1.4.1.1.2 Key Solution Providers in the U.S.

4.1.4.1.1.3 Business Challenges

4.1.4.1.1.4 Business Drivers

4.1.4.1.2 Applications

4.1.4.1.2.1 U.S. Automotive Cybersecurity Market Demand (by Application), Value Data

4.1.4.1.2.2 U.S. Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data

4.1.4.1.3 Products

4.1.4.1.3.1 U.S. Automotive Cybersecurity Market Demand (by Security Type), Value Data

4.1.4.1.3.2 U.S. Automotive Cybersecurity Market Demand (by Form), Value Data

4.1.4.2 Canada

4.1.4.2.1 Market

4.1.4.2.1.1 Buyers Attributes

4.1.4.2.1.2 Key Solution Providers in Canada

4.1.4.2.1.3 Business Challenges

4.1.4.2.1.4 Business Drivers

4.1.4.2.2 Applications

4.1.4.2.2.1 Canada Automotive Cybersecurity Market Demand (by Application),
Value Data

4.1.4.2.2.2 Canada Automotive Cybersecurity Market Demand (by Vehicle Type),
Value Data

4.1.4.2.3 Products

4.1.4.2.3.1 Canada Automotive Cybersecurity Market Demand (by Security Type),
Value Data

4.1.4.2.3.2 Canada Automotive Cybersecurity Market Demand (by Form), Value
Data

4.1.4.3 Mexico

4.1.4.3.1 Market

4.1.4.3.1.1 Buyers Attributes

4.1.4.3.1.2 Key Solution Providers in Mexico

4.1.4.3.1.3 Business Challenges

4.1.4.3.1.4 Business Drivers

4.1.4.3.2 Applications

4.1.4.3.2.1 Mexico Automotive Cybersecurity Market Demand (by Application),
Value Data

4.1.4.3.2.2 Mexico Automotive Cybersecurity Market Demand (by Vehicle Type),
Value Data

4.1.4.3.3 Products

4.1.4.3.3.1 Mexico Automotive Cybersecurity Market Demand (by Security Type),
Value Data

4.1.4.3.3.2 Mexico Automotive Cybersecurity Market Demand (by Form), Value
Data

4.2 Europe

4.2.1 Market

4.2.1.1 Buyer Attributes

4.2.1.2 Key Solution Providers in Europe

4.2.1.3 Business Challenges

4.2.1.4 Business Drivers

4.2.2 Applications

4.2.2.1 Europe Automotive Cybersecurity Market Demand (by Application), Value
Data

4.2.2.2 Europe Automotive Cybersecurity Market Demand (by Vehicle Type), Value

Data

4.2.3 Products

4.2.3.1 Europe Automotive Cybersecurity Market Demand (by Security Type), Value

Data

4.2.3.2 Europe Automotive Cybersecurity Market Demand (by Form), Value Data

4.2.4 Europe (by Country)

4.2.4.1 Germany

4.2.4.1.1 Market

4.2.4.1.1.1 Buyers Attributes

4.2.4.1.1.2 Key Solution Providers in Germany

4.2.4.1.1.3 Business Challenges

4.2.4.1.1.4 Business Drivers

4.2.4.1.2 Applications

4.2.4.1.2.1 Germany Automotive Cybersecurity Market Demand (by Application),

Value Data

4.2.4.1.2.2 Germany Automotive Cybersecurity Market Demand (by Vehicle Type),

Value Data

4.2.4.1.3 Products

4.2.4.1.3.1 Germany Automotive Cybersecurity Market Demand (by Security

Type), Value Data

4.2.4.1.3.2 Germany Automotive Cybersecurity Market Demand (by Form), Value

Data

4.2.4.2 France

4.2.4.2.1 Market

4.2.4.2.1.1 Buyers Attributes

4.2.4.2.1.2 Key Solution Providers in France

4.2.4.2.1.3 Business Challenges

4.2.4.2.1.4 Business Drivers

4.2.4.2.2 Applications

4.2.4.2.2.1 France Automotive Cybersecurity Market Demand (by Application),

Value Data

4.2.4.2.2.2 France Automotive Cybersecurity Market Demand (by Vehicle Type),

Value Data

4.2.4.2.3 Products

4.2.4.2.3.1 France Automotive Cybersecurity Market Demand (by Security Type),

Value Data

4.2.4.2.3.2 France Automotive Cybersecurity Market Demand (by Form), Value

Data

4.2.4.3 Italy

4.2.4.3.1 Market

4.2.4.3.1.1 Buyers Attributes

4.2.4.3.1.2 Key Solution Providers in Italy

4.2.4.3.1.3 Business Challenges

4.2.4.3.1.4 Business Drivers

4.2.4.3.2 Applications

4.2.4.3.2.1 Italy Automotive Cybersecurity Market Demand (by Application), Value Data

4.2.4.3.2.2 Italy Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data

4.2.4.3.3 Products

4.2.4.3.3.1 Italy Automotive Cybersecurity Market Demand (by Security Type), Value Data

4.2.4.3.3.2 Italy Automotive Cybersecurity Market Demand (by Form), Value Data

4.2.4.4 Rest-of-Europe

4.2.4.4.1 Market

4.2.4.4.1.1 Buyers Attributes

4.2.4.4.1.2 Key Solution Providers in the Rest-of-Europe

4.2.4.4.1.3 Business Challenges

4.2.4.4.1.4 Business Drivers

4.2.4.4.2 Applications

4.2.4.4.2.1 Rest-of-Europe Automotive Cybersecurity Market Demand (by Application), Value Data

4.2.4.4.2.2 Rest-of-Europe Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data

4.2.4.4.3 Products

4.2.4.4.3.1 Rest-of-Europe Automotive Cybersecurity Market Demand (by Security Type), Value Data

4.2.4.4.3.2 Rest-of-Europe Automotive Cybersecurity Market Demand (by Form), Value Data

4.3 U.K.

4.3.1 Market

4.3.1.1 Buyer Attributes

4.3.1.1.1 Key Manufacturers in the U.K

4.3.1.1.1.1 Business Challenges

4.3.1.1.1.2 Business Drivers

4.3.2 Applications

4.3.2.1 U.K. Automotive Cybersecurity Market Demand (by Application), Value Data

4.3.2.2 U.K. Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data

Data

4.3.3 Products

4.3.3.1 U.K. Automotive Cybersecurity Market Demand (by Security Type), Value

Data

4.3.3.2 U.K. Automotive Cybersecurity Market Demand (by Form), Value Data

4.4 China

4.4.1 Market

4.4.1.1 Buyer Attributes

4.4.1.2 Key Solution Providers in China

4.4.1.3 Business Challenges

4.4.1.4 Business Drivers

4.4.2 Applications

4.4.2.1 China Automotive Cybersecurity Market Demand (by Application), Value Data

4.4.2.2 China Automotive Cybersecurity Market Demand (by Vehicle Type), Value

Data

4.4.3 Products

4.4.3.1 China Automotive Cybersecurity Market Demand (by Security Type), Value

Data

4.4.3.2 China Automotive Cybersecurity Market Demand (by Form), Value Data

4.5 Asia-Pacific and Japan

4.5.1 Market

4.5.1.1 Buyer Attributes

4.5.1.2 Key Solution Providers in Asia-Pacific and Japan

4.5.1.3 Business Challenges

4.5.1.4 Business Drivers

4.5.2 Applications

4.5.2.1 Asia-Pacific and Japan Automotive Cybersecurity Market Demand (by Application), Value Data

4.5.2.2 Asia-Pacific and Japan Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data

4.5.3 Products

4.5.3.1 Asia-Pacific and Japan Automotive Cybersecurity Market Demand (by Security Type), Value Data

4.5.3.2 Asia-Pacific and Japan Automotive Cybersecurity Market Demand (by Form), Value Data

4.5.4 Asia-Pacific and Japan (by Country)

4.5.4.1 Japan

4.5.4.1.1 Market

4.5.4.1.1.1 Buyers Attributes

- 4.5.4.1.1.2 Key Solution Providers in Japan
- 4.5.4.1.1.3 Business Challenges
- 4.5.4.1.1.4 Business Drivers
- 4.5.4.1.2 Applications
 - 4.5.4.1.2.1 Japan Automotive Cybersecurity Market Demand (by Application), Value Data
 - 4.5.4.1.2.2 Japan Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data
- 4.5.4.1.3 Products
 - 4.5.4.1.3.1 Japan Automotive Cybersecurity Market Demand (by Security Type), Value Data
 - 4.5.4.1.3.2 Japan Automotive Cybersecurity Market Demand (by Form), Value Data
- 4.5.4.2 South Korea
 - 4.5.4.2.1 Market
 - 4.5.4.2.1.1 Buyers Attributes
 - 4.5.4.2.1.2 Key Solution Providers in South Korea
 - 4.5.4.2.1.3 Business Challenges
 - 4.5.4.2.1.4 Business Drivers
 - 4.5.4.2.2 Applications
 - 4.5.4.2.2.1 South Korea Automotive Cybersecurity Market Demand (by Application), Value Data
 - 4.5.4.2.2.2 South Korea Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data
 - 4.5.4.2.3 Products
 - 4.5.4.2.3.1 South Korea Automotive Cybersecurity Market Demand (by Security Type), Value Data
 - 4.5.4.2.3.2 South Korea Automotive Cybersecurity Market Demand (by Form), Value Data
- 4.5.4.3 India
 - 4.5.4.3.1 Market
 - 4.5.4.3.1.1 Buyer Attributes
 - 4.5.4.3.1.2 Key Solution Providers in India
 - 4.5.4.3.1.3 Business Challenges
 - 4.5.4.3.1.4 Business Drivers
 - 4.5.4.3.2 Applications
 - 4.5.4.3.2.1 India Automotive Cybersecurity Market Demand (by Application), Value Data
 - 4.5.4.3.2.2 India Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data

Value Data

4.5.4.3.3 Products

4.5.4.3.3.1 India Automotive Cybersecurity Market Demand (by Security Type),

Value Data

4.5.4.3.3.2 India Automotive Cybersecurity Market Demand (by Form), Value Data

4.5.4.4 Rest-of-Asia-Pacific and Japan

4.5.4.4.1 Market

4.5.4.4.1.1 Buyers Attributes

4.5.4.4.1.2 Key Solution Providers in the Rest-of-Asia Pacific and Japan

4.5.4.4.1.3 Business Challenges

4.5.4.4.1.4 Business Drivers

4.5.4.4.2 Applications

4.5.4.4.2.1 Rest-of-Asia-Pacific Automotive Cybersecurity Market Demand (by Application), Value Data

4.5.4.4.2.2 Rest-of-Asia-Pacific Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data

4.5.4.4.3 Products

4.5.4.4.3.1 Rest-of-Asia-Pacific Automotive Cybersecurity Market Demand (by Security Type), Value Data

4.5.4.4.3.2 Rest-of-Asia-Pacific Automotive Cybersecurity Market Demand (by Form), Value Data

4.6 Rest-of-the-World

4.6.1 Market

4.6.1.1 Buyer Attributes

4.6.1.2 Key Solution Providers in Rest-of-the-World

4.6.1.3 Business Challenges

4.6.1.4 Business Drivers

4.6.2 Applications

4.6.2.1 Rest-of-the-World Automotive Cybersecurity Market Demand (by Application), Value Data

4.6.2.2 Rest-of-the-World Automotive Cybersecurity Market Demand (by Vehicle Type), Value Data

4.6.3 Products

4.6.3.1 Rest-of-the-World Automotive Cybersecurity Market Demand (by Security Type), Value Data

4.6.3.2 Rest-of-the-World Cybersecurity Market Demand (by Form), Value Data

5 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES

5.1 Competitive Benchmarking

5.1.1 Market Share Analysis

5.2 Company Profiles

5.2.1 Private Companies

5.2.1.1 Argus Cyber Security Ltd.

5.2.1.1.1 Company Overview

5.2.1.1.2 Role of Argus Cyber Security Ltd. in the Automotive Cybersecurity Market

5.2.1.1.3 Product Portfolio

5.2.1.1.4 Corporate Strategies

5.2.1.1.4.1 Argus Cyber Security Ltd.: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.1.1.4.2 Argus Cyber Security Ltd.: Merges and Acquisitions

5.2.1.1.5 Business Strategies

5.2.1.1.5.1 Argus Cyber Security Ltd.: Product Development

5.2.1.1.6 Analyst View

5.2.1.2 ESCRYPT GmbH

5.2.1.2.1 Company Overview

5.2.1.2.2 Role of ESCRYPT GmbH in the Automotive Cybersecurity Market

5.2.1.2.3 Product Portfolio

5.2.1.2.4 Corporate Strategies

5.2.1.2.4.1 ESCRYPT GmbH: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.1.2.5 Business Strategies

5.2.1.2.5.1 ESCRYPT GmbH: Product Development

5.2.1.2.5.2 ESCRYPT GmbH: Market Development

5.2.1.2.6 Analyst View

5.2.1.3 Karamba Security

5.2.1.3.1 Company Overview

5.2.1.3.2 Role of Karamba Security in the Automotive Cybersecurity Market

5.2.1.3.3 Product Portfolio

5.2.1.3.4 Corporate Strategies

5.2.1.3.4.1 Karamba Security: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.1.3.5 Business Strategies

5.2.1.3.5.1 Karamba Security: Product Development

5.2.1.3.5.2 Karamba Security: Market Development

5.2.1.3.6 Analyst View

5.2.1.4 ARILOU Automotive Cybersecurity

5.2.1.4.1 Company Overview

5.2.1.4.2 Role of ARILOU Automotive Cybersecurity in the Automotive Cybersecurity Market

5.2.1.4.3 Product Portfolio

5.2.1.4.4 Corporate Strategies

5.2.1.4.4.1 ARILOU Automotive Cybersecurity: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.1.4.5 Business Strategies

5.2.1.4.5.1 ARILOU Automotive Cybersecurity: Product Development

5.2.1.4.6 Analyst View

5.2.1.5 Vector Informatik GmbH

5.2.1.5.1 Company Overview

5.2.1.5.2 Role of Vector Informatik GmbH in the Automotive Cybersecurity Market

5.2.1.5.3 Product Portfolio

5.2.1.5.4 Corporate Strategies

5.2.1.5.4.1 Vector Informatik GmbH: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.1.5.4.2 Vector Informatik GmbH: Merges and Acquisitions

5.2.1.5.5 Business Strategies

5.2.1.5.5.1 Vector Informatik GmbH: Product Development

5.2.1.5.6 Analyst View

5.2.1.6 Mocana Corporation

5.2.1.6.1 Company Overview

5.2.1.6.2 Role of Mocana Corporation in the Automotive Cybersecurity Market

5.2.1.6.3 Product Portfolio

5.2.1.6.4 Corporate Strategies

5.2.1.6.4.1 Mocana Corporation: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.1.6.5 Business Strategies

5.2.1.6.5.1 Mocana Corporation: Product Development

5.2.1.6.6 Analyst View

5.2.1.7 Green Hills Software

5.2.1.7.1 Company Overview

5.2.1.7.2 Role of Green Hills Software in the Automotive Cybersecurity Market

5.2.1.7.3 Product Portfolio

5.2.1.7.4 Corporate Strategies

5.2.1.7.4.1 Green Hills Software: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.1.7.5 Business Strategies

5.2.1.7.5.1 Green Hills Software: Market Development

5.2.1.7.6 Analyst View

5.2.1.8 Irdeto

5.2.1.8.1 Company Overview

5.2.1.8.2 Role of Irdeto in the Automotive Cybersecurity Market

5.2.1.8.3 Product Portfolio

5.2.1.8.4 Analyst View

5.2.2 Public Companies

5.2.2.1 Lear Corporation

5.2.2.1.1 Company Overview

5.2.2.1.2 Role of Lear Corporation in the Automotive Cybersecurity Market

5.2.2.1.3 Product Portfolio

5.2.2.1.4 Corporate Strategies

5.2.2.1.4.1 Lear Corporation: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.2.1.5 Analyst View

5.2.2.2 Denso Corporation

5.2.2.2.1 Company Overview

5.2.2.2.2 Role of Denso Corporation in the Automotive Cybersecurity Market

5.2.2.2.3 Product Portfolio

5.2.2.2.4 Corporate Strategies

5.2.2.2.4.1 Denso Corporation: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.2.2.4.2 Denso Corporation: Merges and Acquisitions

5.2.2.2.5 R&D Analysis

5.2.2.2.6 Analyst View

5.2.2.3 HARMAN International

5.2.2.3.1 Company Overview

5.2.2.3.2 Role of HARMAN International in the Automotive Cybersecurity Market

5.2.2.3.3 Product Portfolio

5.2.2.3.4 Corporate Strategies

5.2.2.3.4.1 HARMAN International: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.2.3.5 Business Strategies

5.2.2.3.5.1 HARMAN International: Product Development

5.2.2.3.5.2 HARMAN International: Market Development

5.2.2.3.6 Analyst View

5.2.2.4 Broadcom Inc.

5.2.2.4.1 Company Overview

5.2.2.4.2 Role of Broadcom Inc. in the Automotive Cybersecurity Market

5.2.2.4.3 Product Portfolio

5.2.2.4.4 Corporate Strategies

5.2.2.4.4.1 Broadcom Inc.: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.2.4.4.2 Broadcom Inc.: Merges and Acquisitions

5.2.2.4.5 R&D Analysis

5.2.2.4.6 Analyst View

5.2.2.5 Garrett Motion Inc.

5.2.2.5.1 Company Overview

5.2.2.5.2 Role of Garrett Motion Inc. in the Automotive Cybersecurity Market

5.2.2.5.3 Product Portfolio

5.2.2.5.4 Business Strategies

5.2.2.5.4.1 Garrett Motion Inc.: Product Development

5.2.2.5.5 Analyst View

5.2.2.6 Aptiv PLC

5.2.2.6.1 Company Overview

5.2.2.6.2 Role of Aptiv PLC in the Automotive Cybersecurity Market

5.2.2.6.3 Product Portfolio

5.2.2.6.4 Corporate Strategies

5.2.2.6.4.1 Aptiv PLC: Merges and Acquisitions

5.2.2.6.5 R&D Analysis

5.2.2.6.6 Analyst View

5.2.2.7 NXP Semiconductors

5.2.2.7.1 Company Overview

5.2.2.7.2 Role of NXP Semiconductors in the Automotive Cybersecurity Market

5.2.2.7.3 Product Portfolio

5.2.2.7.4 Corporate Strategies

5.2.2.7.4.1 NXP Semiconductors: Partnerships, Joint Ventures, Collaborations, and Alliances

5.2.2.7.5 R&D Analysis

5.2.2.7.6 Analyst View

5.2.2.8 Synopsys, Inc.

5.2.2.8.1 Company Overview

5.2.2.8.2 Role of Synopsys, Inc. in the Automotive Cybersecurity Market

5.2.2.8.3 Product Portfolio

5.2.2.8.4 Corporate Strategies

5.2.2.8.4.1 Synopsys, Inc.: Merges and Acquisitions

5.2.2.8.5 Business Strategies

5.2.2.8.5.1 Synopsys, Inc.: Market Development

5.2.2.8.6 R&D Analysis

5.2.2.8.7 Analyst View

5.3 Key Start-Ups in the Automotive Cybersecurity Ecosystem

5.3.1 Upstream Security Ltd.

5.3.1.1 Company Overview

5.3.1.2 Role of Upstream Security Ltd. in the Automotive Cybersecurity Market

5.3.1.3 Product Portfolio

5.3.1.4 Investor-Based Funding

5.3.1.5 Corporate Strategies

5.3.1.5.1 Upstream Security Ltd.: Partnerships, Joint Ventures, Collaborations, and Alliances

5.3.1.6 Business Strategies

5.3.1.6.1 Upstream Security Ltd.: Product Development

5.3.1.6.2 Upstream Security Ltd.: Market Development

5.3.1.7 Analyst View

5.3.2 Guardknox Cyber-Technologies Ltd.

5.3.2.1 Company Overview

5.3.2.2 Role of Guardknox Cyber-Technologies Ltd. in the Automotive Cybersecurity Market

5.3.2.3 Product Portfolio

5.3.2.4 Investor-Based Funding

5.3.2.5 Corporate Strategies

5.3.2.5.1 Guardknox Cyber-Technologies Ltd.: Partnerships, Joint Ventures, Collaborations, and Alliances

5.3.2.6 Business Strategies

5.3.2.6.1 Guardknox Cyber-Technologies Ltd.: Market Development

5.3.2.7 Analyst View

5.3.3 C2A-SEC LTD

5.3.3.1 Company Overview

5.3.3.2 Role of C2A-SEC LTD in the Automotive Cybersecurity Market

5.3.3.3 Product Portfolio

5.3.3.4 Investor-Based Funding

5.3.3.5 Business Strategies

5.3.3.5.1 C2A-SEC LTD: Product Development

5.3.3.6 Analyst View

5.3.4 SafeRide Technologies Ltd.

5.3.4.1 Company Overview

5.3.4.2 Role of SafeRide Technologies Ltd. in the Automotive Cybersecurity Market

5.3.4.3 Product Portfolio

5.3.4.4 Corporate Strategies

5.3.4.4.1 SafeRide Technologies Ltd.: Partnerships, Joint Ventures, Collaborations, and Alliances

5.3.4.5 Analyst View

5.3.5 VicOne Inc.

5.3.5.1 Company Overview

5.3.5.2 Role of VicOne Inc. in the Automotive Cybersecurity Market

5.3.5.3 Product Portfolio

5.3.5.4 Corporate Strategies

5.3.5.4.1 VicOne Inc.: Partnerships, Joint Ventures, Collaborations, and Alliances

5.3.5.4.2 VicOne Inc.: Merges and Acquisitions

5.3.5.5 Analyst View

6 RESEARCH METHODOLOGY

6.1 Data Sources

6.1.1 Primary Data Sources

6.1.2 Secondary Data Sources

6.1.3 Data Triangulation

6.2 Market Estimation and Forecast

6.2.1 Factors for Data Prediction and Modeling

List Of Figures

LIST OF FIGURES

Figure 1: Global Automotive Cybersecurity Market Overview, \$Million, 2021-2031

Figure 2: Global Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Figure 3: Global Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Figure 4: Global Automotive Cybersecurity Market (by Level of Autonomy), \$Million, 2021-2031

Figure 5: Global Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Figure 6: Global Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Figure 7: Global Automotive Cybersecurity Market (by Region), \$Million, 2021

Figure 1: Automotive Cybersecurity Market Coverage

Figure 2: Automotive Cybersecurity Market Supply Chain

Figure 3: Automotive Cybersecurity Ecosystem

Figure 4: Automotive Cybersecurity Standards

Figure 5: Roadmap of the Automotive Cybersecurity Market

Figure 6: Automotive Cybersecurity Attack Vectors

Figure 7: Global Automotive Cybersecurity Market, Business Dynamics

Figure 8: Impact of Business Drivers

Figure 9: Impact of Business Restraints

Figure 10: Share of Key Business Strategies, 2019-2022

Figure 11: Product Development (by Company), 2019-2022

Figure 12: Share of Key Corporate Strategies, 2019-2022

Figure 13: Partnerships, Joint Ventures, Collaborations, and Alliances (by Company), 2019-2022

Figure 14: Impact of Business Opportunities

Figure 8: Automotive Cybersecurity Market for Communication, \$Million, 2021-2031

Figure 9: Automotive Cybersecurity Market for Advanced Driver Assistance System (ADAS) and Safety System, \$Million, 2021-2031

Figure 10: Automotive Cybersecurity Market for On-Board Diagnostic (OBD), \$Million, 2021-2031

Figure 11: Automotive Cybersecurity Market for Infotainment, \$Million, 2021-2031

Figure 12: Automotive Cybersecurity Market for Telematics, \$Million, 2021-2031

Figure 13: Automotive Cybersecurity Market for EV Charging Station, \$Million, 2021-2031

Figure 14: Automotive Cybersecurity Market for Others, \$Million, 2021-2031

Figure 15: Automotive Cybersecurity Market for Passenger Vehicle, \$Million, 2021-2031

Figure 16: Automotive Cybersecurity Market for Passenger Internal Combustion Engine (ICE) Vehicles, \$Million, 2021-2031

Figure 17: Automotive Cybersecurity Market for Passenger Electric Vehicles (EVs), \$Million, 2021-2031

Figure 18: Automotive Cybersecurity Market for Commercial Vehicle, \$Million, 2021-2031

Figure 19: Automotive Cybersecurity Market for Commercial Internal Combustion Engine (ICE) Vehicles, \$Million, 2021-2031

Figure 20: Automotive Cybersecurity Market for Commercial Electric Vehicles (EVs), \$Million, 2021-2031

Figure 21: Automotive Cybersecurity Market for Level 1, \$Million, 2021-2031

Figure 22: Automotive Cybersecurity Market for Level 2, \$Million, 2021-2031

Figure 23: Automotive Cybersecurity Market for Level 3, \$Million, 2021-2031

Figure 24: Automotive Cybersecurity Market for Level 4, \$Million, 2021-2031

Figure 25: Automotive Cybersecurity Market for Level 5, \$Million, 2021-2031

Figure 26: Automotive Cybersecurity Market for Network Security, \$Million, 2021-2031

Figure 27: Automotive Cybersecurity Market for Software Security, \$Million, 2021-2031

Figure 28: Automotive Cybersecurity Market for Cloud Security, \$Million, 2021-2031

Figure 29: Automotive Cybersecurity Market for Hardware Security, \$Million, 2021-2031

Figure 30: Automotive Cybersecurity Market for In-Vehicle, \$Million, 2021-2031

Figure 31: Automotive Cybersecurity Market for External Cloud Services, \$Million, 2021-2031

Figure 1: Global Automotive Cybersecurity Market, Opportunity Matrix (by Region), \$Million

Figure 2: Global Automotive Cybersecurity Market, Opportunity Matrix (by Security Type), \$Million

Figure 15: Competitive Benchmarking for the Global Automotive Cybersecurity Market, 2021

Figure 16: Denso Corporation: R&D Expenditure, \$Billion, 2020-2022

Figure 17: Broadcom Inc.: R&D Expenditure, \$Billion, 2019-2021

Figure 18: Aptiv PLC: R&D Expenditure, \$Billion, 2019-2021

Figure 19: NXP Semiconductors: R&D Expenditure, \$Billion, 2019-2021

Figure 20: Synopsys, Inc.: R&D Expenditure, \$Billion, 2019-2021

Figure 21: Data Triangulation

Figure 22: Top-Down and Bottom-Up Approach

Figure 23: Assumptions and Limitations

List Of Tables

LIST OF TABLES

Table 1: Global Automotive Cybersecurity Market Overview

Table 2: Key Companies Profiled

Table 3: Key Stakeholders in the Automotive Cybersecurity Market Supply Chain

Table 1: Consortiums, Associations, and Regulatory Bodies

Table 2: Government Programs and Initiatives

Table 3: Programs by Research Institutions and Universities

Table 4: Key Patent Mapping

Table 5: Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 6: Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 7: Automotive Cybersecurity Market (by Level of Autonomy), \$Million, 2021-2031

Table 8: Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 9: Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 10: Automotive Cybersecurity Market (by Region), \$Million, 2021-2031

Table 11: North America Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 12: North America Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 13: North America Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 14: North America Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 15: U.S. Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 16: U.S. Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 17: U.S. Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 18: U.S. Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 19: Canada Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 20: Canada Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 21: Canada Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 22: Canada Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 23: Mexico Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 24: Mexico Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 25: Mexico Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 26: Mexico Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 27: Europe Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 28: Europe Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 29: Europe Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 30: Europe Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 31: Germany Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 32: Germany Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 33: Germany Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 34: Germany Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 35: France Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 36: France Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 37: France Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 38: France Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 39: Italy Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 40: Italy Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 41: Italy Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 42: Italy Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 43: Rest-of-Europe Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 44: Rest-of-Europe Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 45: Rest-of-Europe Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 46: Rest-of-Europe Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 47: U.K. Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 48: U.K. Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 49: U.K. Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 50: U.K. Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 51: China Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 52: China Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 53: China Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 54: China Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 55: Asia-Pacific and Japan Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 56: Asia-Pacific and Japan Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 57: Asia-Pacific and Japan Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 58: Asia-Pacific and Japan Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 59: Japan Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 60: Japan Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 61: Japan Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 62: Japan Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 63: South Korea Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 64: South Korea Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 65: South Korea Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 66: South Korea Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 67: India Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 68: India Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 69: India Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 70: India Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 71: Rest-of-Asia-Pacific Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 72: Rest-of-Asia-Pacific Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

\$Million, 2021-2031

Table 73: Rest-of-Asia-Pacific Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 74: Rest-of-Asia-Pacific Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 75: Rest-of-the-World Automotive Cybersecurity Market (by Application), \$Million, 2021-2031

Table 76: Rest-of-the-World Automotive Cybersecurity Market (by Vehicle Type), \$Million, 2021-2031

Table 77: Rest-of-the-World Automotive Cybersecurity Market (by Security Type), \$Million, 2021-2031

Table 78: Rest-of-the-World Automotive Cybersecurity Market (by Form), \$Million, 2021-2031

Table 79: Market Share Analysis for the Global Automotive Cybersecurity Market, 2021

Table 80: Argus Cyber Security Ltd.: Product and Service Portfolio

Table 81: Argus Cyber Security Ltd.: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 82: Argus Cyber Security Ltd.: Mergers and Acquisitions

Table 83: Argus Cyber Security Ltd.: Product Development

Table 84: ESCRYPT GmbH: Product and Service Portfolio

Table 85: ESCRYPT GmbH: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 86: ESCRYPT GmbH: Product Development

Table 87: ESCRYPT GmbH: Market Development

Table 88: Karamba Security: Product and Service Portfolio

Table 89: Karamba Security: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 90: Karamba Security: Product Development

Table 91: Karamba Security: Market Development

Table 92: ARILOU Automotive Cybersecurity: Product and Service Portfolio

Table 93: ARILOU Automotive Cybersecurity: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 94: ARILOU Automotive Cybersecurity: Product Development

Table 95: Vector Informatik GmbH: Product and Service Portfolio

Table 96: Vector Informatik GmbH: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 97: Vector Informatik GmbH: Mergers and Acquisitions

Table 98: Vector Informatik GmbH: Product Development

Table 99: Mocana Corporation: Product and Service Portfolio

Table 100: Mocana Corporation: Partnerships, Joint Ventures, Collaborations, and Alliances

- Table 101: Mocana Corporation: Product Development
- Table 102: Green Hills Software: Product and Service Portfolio
- Table 103: Green Hills Software: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 104: Green Hills Software: Market Development
- Table 105: Irdeto: Product and Service Portfolio
- Table 106: Lear Corporation: Product and Service Portfolio
- Table 107: Lear Corporation: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 108: Denso Corporation: Product and Service Portfolio
- Table 109: Denso Corporation: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 110: Denso Corporation: Mergers and Acquisitions
- Table 111: HARMAN International: Product and Service Portfolio
- Table 112: HARMAN International: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 113: HARMAN International: Product Development
- Table 114: HARMAN International: Market Development
- Table 115: Broadcom Inc.: Product and Service Portfolio
- Table 116: Broadcom Inc.: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 117: Broadcom Inc.: Mergers and Acquisitions
- Table 118: Garrett Motion Inc.: Product and Service Portfolio
- Table 119: Garrett Motion Inc.: Product Development
- Table 120: Aptiv PLC: Product and Service Portfolio
- Table 121: Aptiv PLC: Mergers and Acquisitions
- Table 122: NXP Semiconductors: Product and Service Portfolio
- Table 123: NXP Semiconductors: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 124: Synopsys, Inc.: Product and Service Portfolio
- Table 125: Synopsys, Inc.: Mergers and Acquisitions
- Table 126: Synopsys, Inc.: Market Development
- Table 127: Upstream Security Ltd.: Product and Service Portfolio
- Table 128: Upstream Security Ltd.: Investor-Based Funding
- Table 129: Upstream Security Ltd.: Partnerships, Joint Ventures, Collaborations, and Alliances
- Table 130: Upstream Security Ltd.: Product Development
- Table 131: Upstream Security Ltd.: Market Development
- Table 132: Guardknox Cyber-Technologies Ltd.: Product and Service Portfolio
- Table 133: Guardknox Cyber-Technologies Ltd.: Investor-Based Funding

Table 134: Guardknox Cyber-Technologies Ltd.: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 135: Guardknox Cyber-Technologies Ltd.: Market Development

Table 136: C2A-SEC LTD: Product and Service Portfolio

Table 137: C2A-SEC LTD: Investor-Based Funding

Table 138: C2A-SEC LTD: Product Development

Table 139: SafeRide Technologies Ltd.: Product and Service Portfolio

Table 140: SafeRide Technologies Ltd.: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 141: VicOne Inc.: Product and Service Portfolio

Table 142: VicOne Inc.: Partnerships, Joint Ventures, Collaborations, and Alliances

Table 143: VicOne Inc.: Mergers and Acquisitions

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