

Cybersecurity for Autonomous Vehicles Market By Security Type (Application Security, Network Security, Endpoint Security) , By Form (In-vehicle cybersecurity, External cloud cybersecurity) By Type (Commercial, Passenger) By Application (ADAS & Safety, Body Control & Comfort, Infotainment, Telematics, Powertrain Systems, Communication System) : Global Opportunity Analysis and Industry Forecast, 2024-2032

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Abstracts

Cybersecurity for Autonomous Vehicles Market

The cybersecurity for autonomous vehicles market was valued at \$356.0 million in 2023 and is projected to reach \$2330.2 million by 2032, growing at a CAGR of 22.9% from 2024 to 2032.

An autonomous vehicle is a self-driving automobile that requires no human input for its operation. Cybersecurity is a crucial aspect of autonomous vehicles as they remain heavily dependent on connected technologies. From sensors to cameras, each component requires complex communication networks to drive the vehicle, making it significantly vulnerable to cyber threats. Manufacturers incorporate robust cybersecurity measures such as encryption and multi-layered authentication in the vehicle to detect intrusion and ensure the safety of passengers & pedestrians.

As the adoption of autonomous vehicles is increasing in commercial and personal transportation, the growth of the cybersecurity for autonomous vehicles market is being

driven significantly. In addition, the stringent regulatory environment established by organizations such as the General Data Protection Regulation and the U.S. National Highway Traffic Safety Administration, to ensure safety of the public using autonomous vehicles is augmenting the market growth. The integration of vehicle-to-everything (V2X) communication systems into autonomous vehicles is a prominent trend acquiring traction in the market in recent times. V2X technology enhances public & vehicle safety by facilitating the communication of autonomous vehicles with other automobiles, infrastructure, and cloud services.

However, the rapidly evolving nature of cyberattacks results in new vulnerabilities for autonomous vehicles, which restrains the growth of the market. Moreover, lack of universally acceptable cybersecurity standards & guidelines leads to market fragmentation and hampers the market development. On the contrary, rise in the use of data anonymization technology to safeguard against evolving cyberattacks is expected to present remunerative opportunities for the cybersecurity for autonomous vehicles market. For instance, to support the launch of smart autonomous vehicles in the industry, an Indian multinational technology company, Infosys has developed an Infosys Cyber Security Platform that safeguards the telematics and sensor data of vehicles via anonymization & aggregation. The ability of data anonymization technology to disrupt or strip identifiable details before being processed or shared reduces the risk of privacy breaches, hence opening new avenues for the market.

Segment Review

The cybersecurity for autonomous vehicles market is segmented into security type, form, type, application, and region. On the basis of security type, the market is divided into application security, network security, and endpoint security. According to form, it is bifurcated into in-vehicle cybersecurity and external cloud cybersecurity. Depending on type, it is classified into commercial and passenger. By application, it is categorized into ADAS & safety, body control & comfort, infotainment, telematics, powertrain systems, and communication system. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of security type, the network security segment is expected to dominate the market during the forecast period.

According to form, the external cloud cybersecurity segment is projected to be the

highest shareholder by 2032.

Depending on type, the commercial segment is anticipated to account for the highest market share from 2024 to 2032.

By application, the ADAS & safety segment is predicted to garner a notable market share during the forecast period.

Region wise, Asia-Pacific was the highest revenue generator in 2023.

Competition Analysis

The major players in the global cybersecurity for autonomous vehicles market include Argus Cyber Security, HARMAN International, GuardKnox, Karamba Security, Symantec Corporation, Trend Micro, Upstream Security, Cisco Systems, Inc., Trillium Secure, Inc., and SafeRide Technologies. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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End user preferences and pain points

Industry life cycle assessment, by region

Product Benchmarking / Product specification and applications

Product Life Cycles

Scenario Analysis & Growth Trend Comparison

Technology Trend Analysis

Go To Market Strategy

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Pain Point Analysis

Regulatory Guidelines

Strategic Recommendations

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Brands Share Analysis

Criss-cross segment analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

SWOT Analysis

Key Market Segments

By Security Type

Application Security

Network Security

Endpoint Security

By Form

In-vehicle cybersecurity

External cloud cybersecurity

By Type

Commercial

Passenger

By Application

ADAS Safety

Body Control Comfort

Infotainment

Telematics

Powertrain Systems

Communication System

By Region

North America

U.S.

Canada

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Argus Cyber Security

HARMAN International

GuardKnox

Karamba Security

Symantec Corporation

Trend Micro

Upstream Security

Cisco Systems, Inc

Trillium Secure, Inc.

SafeRide Technologies

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