

# **Autonomous Vehicle Market by Autonomy Level, Powertrain Type, Components, and Supporting Technologies including 5G, AI, and Edge Computing 2021 - 2026**

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## **Abstracts**

### **Overview:**

This report assesses the autonomous vehicle market including leading vendors, strategies, product and service offerings. The report evaluates autonomous vehicles by autonomy level, powertrain type, components, and supporting technologies. It also evaluates the impact of major technologies on autonomous vehicle markets such as 5G, AI, edge computing, IoT, data analytics, and smart building integration.

### **Select Report Findings:**

Key technology areas to leverage for service provider solutions include AI, 5G, and IoT

5G related software expenditures in support of autonomous vehicle solutions will reach \$12.9 billion by 2026

Edge computing infrastructure and services in support of autonomous vehicles will reach \$39 billion by 2026

Dedicated infrastructure for autonomous vehicles will serve as a proving ground for economic justification for autonomous vehicle ride-share and other green tech solutions

Smart city market growth and innovation will be highly correlated with autonomous and connected vehicle technology funding, R&D and developments

Driven by private and sovereign investment, certain countries outside the United States will witness surprisingly robust growth in autonomous vehicle deployments

The report provides global and regional forecasts for the autonomous vehicle market including hardware, software, and services along with emerging technologies from 2021 to 2026. The report covers major consumer and commercial categories including personal vehicles, shared vehicles (ride sharing and shared vehicles/partial ownership) and rentals. The report also evaluates autonomous control in ICE vehicles, EV, and ICE/EV hybrids.

### **Autonomous Vehicle Disruption of the Automotive Industry Ecosystem**

Autonomous vehicles are poised to invoke a revolution in the automobile industry including public transportation systems, car rental and sharing systems, vehicle leasing and ownership, industrial transportation, and automotive insurance practices and systems.

The extent of disruption will increase with the degree of vehicle autonomy, which is measured in levels from zero (fully human operated) to five (fully automated system) with evolution from levels 1 through 4 consisting of an autopilot system combined with some level of human control or intervention capability. Autonomous vehicles are anticipated to become the foundation of transportation as a service globally.

The automotive ecosystem is also faced with disruption from electric vehicles (EV), which has transformed supply chain economics at the vehicle component level as well as consumer value perception and lifecycle management. Improvements in battery cost/performance and reduction in cost of power train components for EV will lead to lower overall purchase cost that is more comparable with traditional internal combustion engine (ICE) vehicles.

The autonomous vehicle ecosystem will also be highly disruptive with respect to the consumer segment regarding the traditional production and sales cycle. This will be due largely to the vast amount of data produced by self-driving cars, vans, and trucks. The use of AI and big data analytics will allow both real-time decision-making as well as post

event analytics.

## **Autonomous Vehicle Growth Factors and Constraints**

The autonomous vehicle market will grow rapidly during the 2020s and will transform many industries including consumer mobility, commercial transport, industrial automation, smart cities, and transportation systems as a whole. There are many factors that will drive growth and adoption of autonomous vehicles including cost reduction, safety improvements, and incremental advances in consumer perception.

For example, the U.S. Department of Transportation has moved forward with an Automated Vehicles Comprehensive Plan with the intention of establishing policies and regulations to ensure the safe and full integration of automated driving systems into the surface transportation system. The plan includes real-world examples of how policies and regulations will relate to emerging automated driving systems applications.

The United States is not alone in the push for a robust autonomous vehicle market. China and South Korea are two leading companies in the Asia Pac region. For example, South Korea invested \$1 billion in autonomous vehicle technology with a focus on technology and infrastructure development. Companies such as Hyundai and Samsung allow South Korea to implement vehicles more seamlessly with autonomous capabilities. South Korea desires to achieve commercialization of level 4 autonomous vehicles by 2027.

In addition to overcoming public trust factors relative to safety, the autonomous vehicle market is also focused on the major consumer upsides to self-driving vehicles, which include less expensive transport, opportunities for ride sharing and fractional ownership, and ultimately reduced outright leasing and ownership of cars, vans, and trucks. This is anticipated to have a major impact on OEMs and traditional automakers, despite the fact that market leading automobile manufacturers are aggressively pursuing autonomous vehicle product offerings.

The above-mentioned market forces, availability of cost-effective and safe technology, and appropriate governmental oversight are all key factors coming together to enable a robust autonomous vehicle ecosystem. Accordingly, the autonomous vehicle market is beginning to move into the next market cycle beyond the early-adopter phase. Mind Commerce estimates indicate end-users will not fully embrace self-driving vehicles until the 2027 time-frame.

## **Juxtaposition of Fully Autonomous Vehicles, Connected Drivers and Passengers**

Paradoxically, automotive vendors are also continuously upgrading their fleets to offer more connected vehicles, which provide drivers with a substantially more safe, enjoyable, and informative driving experience. However, autonomous vehicles are also connected via IoT technologies and various broadband and narrowband wireless solutions.

In the near future, Mind Commerce anticipates that automobile vendors will offer next generation connected vehicle apps to human occupants within autonomous vehicles that capitalize upon hands-free operation, and in some cases, offer fully immersive experiences for longer trips.

## **Autonomous Vehicles for Commercial Fleets and other Business Operations**

The evolution of self-driving vehicles for the fleet market will be human controlled fleets to machine/human-controlled fleets to completely autonomous (e.g. machine-driven) vehicles that leverage various technologies including sensors, AI, cognitive computing, geo-fencing, GIS/mapping, and more. Ultimately, the market will achieve level 4 autonomy, which is similar to level 3, but the human behind the wheel is considered to be a “passenger” rather than a “driver.”

Market leading autonomous vehicle use cases will be found primarily within the business realm with an emphasis on shipping and commercial fleets. Important within this segment is heavy haul trucking, which refers to the transport of oversize or overweight freight equipped with specialized trailers and transporting heavy equipment.

### **Target Audience:**

AI Companies

Automobile Industry

Application Developers

Big Data and Analytics Companies

Communication Service Providers

Cloud and IoT Product and Service Providers

Consultant and System Integration Companies

### **Report Benefits:**

Understand the autonomous vehicle ecosystem and identify emerging opportunities

Identify how rob-taxis and shared-ride services will be transformed by self-driving vehicles

Evaluation of consumer, enterprise, industrial and government sectors for self-driving vehicles

Identify major vendors, strategies, and solutions for autonomous vehicle solutions, products, and services

Forecasts for autonomous vehicle market (global and regionally) including hardware, software, and services 2021 – 2026

Understand how technologies such as AI, and Smart Building Integration will accelerate the adoption of autonomous vehicle

Understand how autonomous vehicles evolve from level 3 type conditional automation to level 5 type fully automated system

### **Companies in Report:**

Almotive

Alibaba (SAIC Motors)

Alphabet Inc. (Waymo)

Amazon.com Inc.

Apple Inc.

APTIV

Arbe Robotics

Audi AG

Aurora

Autoliv Inc.

Autotalks Ltd.

Baidu Inc. (NIO)

Beijing Trunk Tech Co. Ltd.

Blackberry QNX

BMW AG

Cisco System Inc.

Cognata

Cohda Wireless

Commsignia

Continental AG

Cruise LLC

DAF Trucks

Daimler AG (Mercedes Benz)

Deep Vision

Deepmap

Deepscale

DENSO Corporation

Didi Chuxing Technology Co. Ltd.

Fiat Chrysler Automobiles

Ford Motor Company

General Motors

GrabTaxi Holdings Pte. Ltd.

Groupe PSA

Groupe Renault

Hitachi

Honda Motor Company Ltd.

Huawei Technology Co. Ltd.

Hyundai

Idriverplus

Innoviz Technologies

Innovusion

Intel Corporation (Mobileye)

IVECO

Jaguar Land Rover

LeddarTech

Lyft Inc.

Magna International Inc.

Metawave

Microsoft Corporation

Mighty AI

Mitsubishi Motors Corporation

Nikola Corporation

Nissan Motor Corporation

Nuro

NVidia Corporation

NXP Semiconductors NV

PACCAR

Panasonic Corporation

Porsche AG

Prophesee

Robert Bosch GmbH

Robosense

Samsung Electronics Co. Ltd.



Scania AB

Telefonaktiebolaget LM Ericsson

Tencent

Tesla Inc.

Toshiba

Toyota Motor Corporation

Uber Technologies Inc.

Valeo

Velodyne Lidar, Inc.

Visteon

Volkswagen AG

Volvo Car Corporation

Voyage

WeRide

Zenuity

ZF Friedrichshafen

Zhejiang Geely Holding Group

## Contents

### 1.0 EXECUTIVE SUMMARY

### 2.0 INTRODUCTION

#### 2.1 Autonomous Vehicles

##### 2.1.1 Self-Driving Cars, Vans, and Trucks

##### 2.1.2 Long Haul and Short Haul Trucking

#### 2.2 Semi-Autonomous vs. Fully Autonomous Vehicles

##### 2.2.1 Vehicle Automation Enablement

##### 2.2.2 Automation Levels One to Five

#### 2.3 Conventional Vehicles vs. Hybrid Vehicles

#### 2.4 Electric Vehicles

#### 2.5 Consumer Automobile Market

#### 2.6 Commercial Automotive: Industrial, Military, and Fleet Vehicles

##### 2.6.1 Fleet Vehicles

##### 2.6.2 Commercial Service Vehicles

##### 2.6.3 Military Vehicles

#### 2.7 Autonomous Vehicle Market Drivers

#### 2.8 Autonomous Vehicle Market Challenges

### 3.0 AUTONOMOUS SYSTEMS TECHNOLOGY AND MARKET ANALYSIS

#### 3.1 Autonomous Vehicle Technology

##### 3.1.1 Navigation and Mapping

##### 3.1.2 Machine Vision and Motion Planning

##### 3.1.3 Trajectory Control

##### 3.1.4 Video Camera and GPS System

##### 3.1.5 Traffic Detection and Assistance

##### 3.1.6 Sensing System: Ultrasonic, LIDAR, and Others

##### 3.1.7 V2X Sensors and Communications

##### 3.1.8 Automotive System on Chip

##### 3.1.9 Autonomous Driving Systems

#### 3.2 Smart Transportation and ADAS Systems

#### 3.3 Artificial Intelligence Software

#### 3.4 Vehicle Security Systems

#### 3.5 Vehicle Infotainment Systems

#### 3.6 Vehicle as a Service and Ride Sharing Services

- 3.6.1 Robo Taxi Services
- 3.7 Big Data Analytics and Simulation in Support of Autonomous Ecosystem
- 3.8 Usage Based Automobile Insurance
- 3.9 Opportunities and Deployments in Smart Cities
- 3.10 Role of Blockchain and Cloud Computing
- 3.11 Electric Vehicle Charging and Smart Building Integration
- 3.12 Autonomous Vehicle Value Chain
- 3.13 Human Interactions with Autonomous Vehicles
- 3.14 Government Regulations
- 3.15 Autonomous Vehicle Impact Analysis
- 3.16 Automobile Industry Strategic Partnerships

## **4.0 AUTONOMOUS VEHICLE ECOSYSTEM ANALYSIS**

- 4.1 Huawei Technology
- 4.2 Beijing TrunkTech Co. Ltd.
- 4.3 Amazon
- 4.4 Cruise LLC
- 4.5 WeRide
- 4.6 NVidia Corporation
- 4.7 NXP Semiconductors
- 4.8 Apple
- 4.9 Microsoft Corporation
- 4.10 Blackberry QNX
- 4.11 Didi Chuxing Technology
- 4.12 Velodyne Lidar, Inc.
- 4.13 Lyft
- 4.14 Uber Technologies
- 4.15 GrabTaxi Holdings
- 4.16 Voyage
- 4.17 Almotive
- 4.18 Idriverplus
- 4.19 Aurora
- 4.20 Nuro
- 4.21 Zoox Inc.
- 4.22 Tencent
- 4.23 Deepmap
- 4.24 LeddarTech
- 4.25 Innoviz Technologies

- 4.26 Innovusion
- 4.27 Robosense
- 4.28 Deep Vision
- 4.29 Prophesee
- 4.30 Deepscale
- 4.31 Arbe Robotics
- 4.32 Metawave
- 4.33 Commsignia
- 4.34 Cohda Wireless
- 4.35 Autotalks Ltd.
- 4.36 Cognata
- 4.37 Mighty AI
- 4.38 Volkswagen AG
- 4.39 Scania AB
- 4.40 Audi AG
- 4.41 BMW AG
- 4.42 Daimler AG (Mercedes Benz)
- 4.43 Ford Motor Company
- 4.44 Zhejiang Geely Holding Group
- 4.45 General Motors
- 4.46 Honda Motor Company
- 4.47 Nissan Motor Corporation
- 4.48 Tesla Inc.
- 4.49 Toyota Motor Corporation
- 4.50 Volvo Car Corporation
- 4.51 Zenuity
- 4.52 Mitsubishi Motors Corporation
- 4.53 Fiat Chrysler Automobiles
- 4.54 Porsche AG
- 4.55 Groupe Renault
- 4.56 Groupe PSA
- 4.57 Alibaba (SAIC Motors)
- 4.58 Autoliv Inc.
- 4.59 Ericsson
- 4.60 Intel Corporation (Mobileye)
- 4.61 Continental AG
- 4.62 DENSO Corporation
- 4.63 Robert Bosch GmbH
- 4.64 Alphabet Inc. (Waymo)

- 4.65 Baidu Inc. (NIO)
- 4.66 APTIV
- 4.67 Cisco System
- 4.68 DAF Trucks
- 4.69 IVECO
- 4.70 Hyundai
- 4.71 Jaguar Land Rover
- 4.72 Samsung Electronic
- 4.73 Hitachi
- 4.74 Magna International
- 4.75 Panasonic Corporation
- 4.76 Toshiba
- 4.77 Valeo
- 4.78 Visteon
- 4.79 ZF Friedrichshafen
- 4.80 Nikola Corporation

## **5.0 MARKET ANALYSIS AND FORECASTS 2021 - 2026**

- 5.1 Autonomous Vehicle Market 2021 - 2026
- 5.2 Autonomous Vehicle Market by Segment 2021 - 2026
  - 5.2.1 Autonomous Vehicle Market by Hardware 2021 - 2026
    - 5.2.1.1 Autonomous Vehicle Market by Vehicle Unit Sales 2021 - 2026
      - 5.2.1.1.1 Autonomous Vehicle Market by Armored Vehicle 2021 - 2026
    - 5.2.1.2 Autonomous Vehicle Market by Component 2021 - 2026
    - 5.2.1.3 Autonomous Vehicle Market by Vehicle Charger 2021 - 2026
  - 5.2.2 Autonomous Vehicle Market by Software 2021 - 2026
    - 5.2.2.1 Autonomous Vehicle Market by ADAS System 2021 - 2026
    - 5.2.2.2 Autonomous Vehicle Market by AI Software 2021 - 2026
    - 5.2.2.3 Autonomous Vehicle Market by Security System 2021 - 2026
    - 5.2.2.4 Autonomous Vehicle Market by Vehicle Infotainment System 2021 - 2026
    - 5.2.2.5 Autonomous Vehicle Market by Data Storage and Analytics 2021 - 2026
  - 5.2.3 Autonomous Vehicle Market by Service 2021 - 2026
    - 5.2.3.1 Autonomous Vehicle Market by Business Service 2021 - 2026
      - 5.2.3.1.1 Autonomous Vehicle Connectivity Market by V2X Communication 2021 - 2026
      - 5.2.3.1.2 Autonomous Vehicle Connectivity Market by Connectivity Type 2021 - 2026
        - 5.2.3.1.2.1 Autonomous Vehicle Connectivity Market by Type of Cellular

## Connectivity 2021 - 2026

### 5.2.3.2 Autonomous Vehicle Market by Professional Service 2021 - 2026

## 5.3 Autonomous Vehicle Market by Vehicle Type 2021 - 2026

### 5.3.1 Autonomous Vehicles in Trucking Market by Type 2021 - 2026

### 5.3.2 Autonomous Vehicle in Commercial vs. Military Markets 2021 - 2026

### 5.3.3 Autonomous Vehicle Transportation in Consumer vs. Business Markets 2021 - 2026

## 5.4 Autonomous Vehicle Market by Automation Level 2021 - 2026

### 5.4.1 Semi-Autonomous Vehicle Market by Powertrain 2021 - 2026

### 5.4.2 Fully Autonomous Vehicle Market by Powertrain 2021 - 2026

## 5.5 Autonomous Vehicle Market by Business Model 2021 - 2026

## 5.6 Embedded AI in Autonomous Vehicle Market 2021 - 2026

### 5.6.1 Overall Embedded AI in Autonomous Vehicle Market 2021 - 2026

### 5.6.2 Embedded AI Market in Autonomous Vehicle Segmentation 2021 - 2026

## 5.7 Big Data Analytics in Autonomous Vehicles Market 2021 - 2026

### 5.7.1 Big Data Analytics Services in Autonomous Vehicle Market 2021 - 2026

### 5.7.2 Big Data Analytics Market in Autonomous Vehicle by Solution Type 2021 - 2026

## 5.8 Sensor Systems in Autonomous Vehicles Market 2021 - 2026

### 5.8.1 Sensor Systems in Autonomous Vehicle Market 2021 - 2026

### 5.8.2 Sensor System Market in Autonomous Vehicle by Type 2021 - 2026

## 5.9 Machine Vision Systems in Autonomous Vehicles Market 2021 - 2026

## 5.10 Smart Building Integration in Autonomous Vehicles Market 2021 - 2026

### 5.10.1 Overall Smart Building and Autonomous Vehicle Integration 2021 - 2026

### 5.10.2 Smart Building Integration Market in Autonomous Vehicles by Type 2021 - 2026

## 5.11 Autonomous Vehicles and Smart Transportation Systems 2021 - 2026

### 5.11.1 Overall Autonomous Vehicles in Smart Transportation Market 2021 - 2026

### 5.11.2 Autonomous Vehicles in Smart Transportation Systems by Component 2021 - 2026

### 5.11.2.1 Smart Transportation System Market in Autonomous Vehicles by ADAS System

### 5.11.2.2 Smart Transportation System Market in Autonomous Vehicles by Embedded AI Software

### 5.11.2.3 Smart Transportation System Market in Autonomous Vehicles by Security Solution

### 5.11.2.4 Smart Transportation System Market in Autonomous Vehicles by Vehicle Connectivity Service

## 5.12 Blockchain in Autonomous Vehicles Market 2021 - 2026

### 5.12.1 Overall Blockchain in Autonomous Vehicle Market 2021 - 2026

### 5.12.2 Blockchain Supported Autonomous Vehicle Market by Software and Services

2021 - 2026

5.13 Cloud Computing in Autonomous Vehicle Market 2021 - 2026

5.13.1 Overall Cloud Computing in Autonomous Vehicles Market 2021 - 2026

5.13.2 Cloud Computing in Autonomous Vehicles by Software and Services 2021 - 2026

5.14 Internet of Things and Autonomous Vehicle Market 2021 - 2026

5.14.1 Overall IoT in Autonomous Vehicles Market 2021 - 2026

5.14.2 IoT in Autonomous Vehicles Market by Hardware, Software, and Services 2021 - 2026

5.14.2.1 IoT in Autonomous Vehicle Market by Hardware Type 2021 - 2026

5.14.2.2 IoT in Autonomous Vehicle Market by Software Type 2021 - 2026

5.14.2.3 IoT in Autonomous Vehicles Market by Service Type 2021 - 2026

5.15 Autonomous Vehicles in Smart Cities Market 2021 - 2026

5.15.1 Autonomous Vehicles (Business and Personal) in Smart Cities 2021 - 2026

5.15.2 Autonomous Vehicles in Smart Cities by Vehicle Type 2021 - 2026

5.16 Autonomous Vehicles and Edge Computing 2021 - 2026

5.17 5G Enabled Autonomous Vehicle Market 2021 - 2026

5.17.1 Overall 5G Supported Autonomous Vehicles Market 2021 - 2026

5.17.2 Autonomous Vehicles Market in 5G by Segment 2021 - 2026

5.18 Autonomous Vehicles Market by Region 2021 - 2026

5.18.1 North America Autonomous Vehicle Market by Leading Country 2021 - 2026

5.18.2 Europe Autonomous Vehicles Market by Leading Country 2021 - 2026

5.18.3 APAC Autonomous Vehicles Market by Leading Country 2021 - 2026

5.18.4 MEA Autonomous Vehicles Market by Leading Country 2021 - 2026

5.18.5 Latin America Autonomous Vehicles Market by Leading Country 2021 - 2026

5.19 Autonomous Vehicle Shipments 2021 - 2026

5.19.1 Total Autonomous Vehicle Shipments 2021 - 2026

5.19.2 Autonomous Vehicle Shipments by Vehicle Type 2021 - 2026

5.19.3 Autonomous Vehicle Shipment Unit by Business vs. Government 2021 - 2026

5.19.3.1 Autonomous Vehicle Shipment Unit by Consumer vs. Business 2021 - 2026

5.19.3.1.1 Autonomous Fleet/Industrial Vehicle Shipment by Vehicle Type 2021 - 2026

5.19.3.1.1.1 Autonomous Vehicles in Trucking Shipment Type 2021 - 2026

5.19.3.1.1.2 Autonomous Vehicles in Long Haul Trucking Shipments by Truck Type 2021 - 2026

5.19.3.1.1.3 Autonomous Long Haul Trucking Shipments by Wheeled Vehicle Type 2021 - 2026

5.19.3.1.1.4 Autonomous Long Haul Trucking Shipments by Truck Length 2021 - 2026



5.19.3.1.1.5 Autonomous Heavy Haul Trucking Shipments by Trailer Equipment  
2021 - 2026

5.19.3.1.1.6 Autonomous Service Vehicles Shipments by Service Type 2021 -  
2026

5.19.3.1.2 Autonomous Commercial Vehicle Shipments by Usage Type 2021 - 2026

5.19.3.1.2.1 Autonomous Commercial Vehicle Shipments by Ownership Type 2021  
- 2026

5.19.3.1.3 Autonomous Consumer Automobile Shipments Ownership vs Fractional  
Usage 2021 - 2026

5.19.4 Autonomous Vehicle Shipments by Region 2021 - 2026

5.19.4.1 North America Autonomous Vehicle Shipments by Leading Country 2021 -  
2026

5.19.4.2 Europe Autonomous Vehicle Shipments by Leading Country 2021 - 2026

5.19.4.3 APAC Autonomous Vehicle Shipments by Leading Country 2021 - 2026

5.19.4.4 MEA Autonomous Vehicle Shipment Unit by Leading Country 2021 - 2026

5.19.4.5 Latin America Autonomous Vehicle Shipment Unit by Leading Country 2021  
- 2026

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**



## List Of Figures

### LIST OF FIGURES

- Figure 1: Autonomous Vehicle Technology
- Figure 2: Machine Vision Specimen
- Figure 3: Automotive Camera
- Figure 4: Artificial Perception System
- Figure 5: Radar Technology
- Figure 6: Solid State Lidar Unit
- Figure 7: 3D Simulation Platform
- Figure 8: Autonomous Vehicle Ecosystem
- Figure 9: Global Consolidated Autonomous Vehicle Market 2021 - 2026
- Figure 10: Global Embedded AI Market in Autonomous Vehicles 2021 - 2026
- Figure 11: Global Big Data Analytics Market in Autonomous Vehicles 2021 - 2026
- Figure 12: Global Sensor System Market in Autonomous Vehicles 2021 - 2026
- Figure 13: Global Machine Vision System Market in Autonomous Vehicles 2021 - 2026
- Figure 14: Global Smart Building Integration Market in Autonomous Vehicles 2021 - 2026
- Figure 15: Global Smart Transportation System Market in Autonomous Vehicles 2021 - 2026
- Figure 16: Global Blockchain Deployed Autonomous Vehicle Markets 2021 - 2026
- Figure 17: Global Cloud Deployed Autonomous Vehicles Market 2021 - 2026
- Figure 18: Global IoT Opportunity in Autonomous Vehicles Market 2021 - 2026
- Figure 19: Global Autonomous Vehicles Deployment Market in Smart City 2021 - 2026
- Figure 20: Global Autonomous Vehicle Deployment Market in Edge Networks 2021 - 2026
- Figure 21: Global Autonomous Vehicles Market in 5G 2021 - 2026
- Figure 22: Global Autonomous Vehicles Shipments 2021 - 2026

## List Of Tables

### LIST OF TABLES

Table 1: Global Autonomous Vehicle Market by Segment 2021 - 2026

Table 2: Global Autonomous Vehicle Market by Hardware Type 2021 - 2026

Table 3: Global Autonomous Vehicle Unit Sales Market by Vehicle Type 2021 - 2026

Table 4: Global Autonomous Vehicle Unit Sales Market by Armored Vehicle Type 2021 - 2026

Table 5: Global Autonomous Vehicle Market by Component Type 2021 - 2026

Table 6: Global Autonomous Vehicle Charger Market by Deployment Type 2021 - 2026

Table 7: Global Autonomous Vehicle Market by Software Type 2021 - 2026

Table 8: Global Autonomous Vehicle Software Market by ADAS Module 2021 - 2026

Table 9: Global Autonomous Vehicle Software Market by Embedded AI Technology Type 2021 - 2026

Table 10: Global Autonomous Vehicle Market by Security System Type 2021 - 2026

Table 11: Global Autonomous Vehicle Market by Vehicle Infotainment System Type 2021 - 2026

Table 12: Global Autonomous Vehicle Data Storage and Analytics Market by Deployment Type 2021 - 2026

Table 13: Global Autonomous Vehicle Market by Service Type 2021 - 2026

Table 14: Global Autonomous Vehicle Market by Business Service Type 2021 - 2026

Table 15: Global Autonomous Vehicle Connectivity Market by V2X Communication Type 2021 - 2026

Table 16: Global Autonomous Vehicle Connectivity Market by Types of Connectivity 2021 - 2026

Table 17: Global Autonomous Vehicle Connectivity Market by Types of Cellular Connectivity 2021 - 2026

Table 18: Global Autonomous Vehicle Market by Professional Service Type 2021 - 2026

Table 19: Global Autonomous Vehicle Market by Vehicle Type 2021 - 2026

Table 20: Global Autonomous Vehicle Market by Short vs. Long vs. Heavy Haul Trucking 2021 - 2026

Table 21: Global Autonomous Vehicle Market, Commercial vs. Military 2021 - 2026

Table 22: Global Autonomous Vehicle Transportation Market, Consumer vs. Business 2021 - 2026

Table 23: Global Autonomous Vehicle Market by Level of Automation 2021 - 2026

Table 24: Global Semi-Autonomous Vehicle Market, Electric, ICE, and Hybrid 2021 - 2026

Table 25: Global Fully Autonomous Vehicle Market by Vehicle Category 2021 - 2026

Table 26: Global Autonomous Vehicle Market by Business Model 2021 - 2026
Table 27: Global Embedded AI Market in Autonomous Vehicles by Segment 2021 - 2026
Table 28: Global Big Data Analytics Market in Autonomous Vehicles by Solution Type 2021 - 2026
Table 29: Global Sensor System Market in Autonomous Vehicles by Type 2021 - 2026
Table 30: Global Smart Building Integration Market in Autonomous Vehicles by Type 2021 - 2026
Table 31: Global Smart Transportation System in Autonomous Vehicle by Type 2021 - 2026
Table 32: Global Smart Transportation System in Autonomous Vehicle by ADAS Module 2021 - 2026
Table 33: Global Smart Transportation System in Autonomous Vehicle by Embedded AI Software 2021 - 2026
Table 34: Global Smart Transportation System in Autonomous Vehicles by Security Solution 2021 - 2026
Table 35: Global Smart Transportation System in Autonomous Vehicles by Vehicle Connectivity Service 2021 - 2026
Table 36: Global Blockchain Deployed Autonomous Vehicles Market by Type 2021 - 2026
Table 37: Global Cloud Deployed Autonomous Vehicles Market by Type 2021 - 2026
Table 38: Global IoT Opportunity in Autonomous Vehicle Market by Segment 2021 - 2026
Table 39: Global IoT in Autonomous Vehicles Market by Hardware Type 2021 - 2026
Table 40: Global IoT in Autonomous Vehicles Market by Software Type 2021 - 2026
Table 41: Global IoT Opportunity in Autonomous Vehicles Market by Service Type 2021 - 2026
Table 42: Global Autonomous Vehicle Deployment Market in Smart Cities by Vehicle Application 2021 - 2026
Table 43: Global Autonomous Vehicles Market in 5G by Segment 2021 - 2026
Table 44: Global Autonomous Vehicles Market by Region 2021 - 2026
Table 45: North America Autonomous Vehicles Market by Leading Country 2021 - 2026
Table 46: Europe Autonomous Vehicles Market by Leading Country 2021 - 2026
Table 47: APAC Autonomous Vehicles Market by Leading Country 2021 - 2026
Table 48: MEA Autonomous Vehicles Market by Leading Country 2021 - 2026
Table 49: Latin America Autonomous Vehicles Market by Leading Country 2021 - 2026
Table 50: Global Autonomous Vehicle Shipments by Vehicle Type 2021 - 2026
Table 51: Global Autonomous Vehicle Shipments Military vs. Commercial 2021 - 2026
Table 52: Global Autonomous Vehicle Shipments by Transportation Application Type

2021 - 2026

Table 53: Global Autonomous Fleet/Industrial Vehicle Shipments by Type 2021 - 2026

Table 54: Global Autonomous Vehicles in Trucking Shipments by Market Type 2021 - 2026

Table 55: Global Autonomous Long Haul Trucking Shipments by Type of Truck 2021 - 2026

Table 56: Global Autonomous Long Haul Trucking Shipments by Type of Wheeled Vehicle 2021 - 2026

Table 57: Global Autonomous Long Haul Trucking Shipments by Length of Truck 2021 - 2026

Table 58: Global Autonomous Heavy Haul Trucking Shipments by Trailer Equipment 2021 - 2026

Table 59: Global Autonomous Service Vehicle Shipments by Service Types 2021 - 2026

Table 60: Global Autonomous Commercial Vehicle Shipments by Usage Type 2021 - 2026

Table 61: Global Autonomous Commercial Vehicle Shipments by Ownership Type 2021 - 2026

Table 62: Global Autonomous Consumer Automobile Shipments by Usage Type 2021 - 2026

Table 63: Autonomous Vehicle Shipments by Region 2021 - 2026

Table 64: North America Autonomous Vehicle Shipments by Leading Country 2021 - 2026

Table 65: Europe Autonomous Vehicle Shipments by Leading Country 2021 - 2026

Table 66: APAC Autonomous Vehicle Shipments by Leading Country 2021 - 2026

Table 67: MEA Autonomous Vehicle Shipments by Leading Country 2021 - 2026

Table 68: Latin America Autonomous Vehicle Shipments by Leading Country 2021 - 2026

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