

Semi-Autonomous and Autonomous Trucks and Buses Market - A Global and Regional Analysis: Focus on Application, Propulsion, Level of Autonomy, Vehicle Type, ADAS Features, Sensor Type, Weight Class, and Region - Analysis and Forecast, 2024-2034

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Abstracts

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Introduction to Semi-Autonomous and Autonomous Trucks and Buses Market

The semi-autonomous and autonomous trucks and buses market has been undergoing significant growth, propelled by various key factors and market drivers. In an optimistic scenario, the market would be evaluated at a valuation of \$43.96 billion in 2024 and projected to expand at a CAGR of 11.89% to reach \$135.23 billion by 2034.

A primary driver for the growth of the semi-autonomous and autonomous trucks and buses market is the increasing focus on enhancing road safety and operational efficiency in the transportation sector. Semi-autonomous and autonomous vehicles are equipped with advanced technologies such as adaptive cruise control, lane-keeping assistance, and automated braking systems, which significantly reduce the risk of human error and accidents. Moreover, the potential for cost savings through reduced labor costs and optimized fuel consumption is encouraging fleet operators to adopt these technologies.

Another driving factor in the global semi-autonomous and autonomous trucks and buses market has been the increasingly stringent regulatory landscape aimed at improving road safety and reducing traffic congestion. Governments around the world are

implementing policies that mandate the integration of advanced driver-assistance systems (ADAS) and autonomous driving technologies to minimize human error and enhance transportation efficiency. These regulations are accelerating the adoption of semi-autonomous and autonomous vehicles as manufacturers and fleet operators strive to comply with new safety standards. Additionally, the push for reducing emissions and improving fuel efficiency is encouraging the development and deployment of electric and hybrid autonomous trucks and buses, further driving market growth.

North America leads the semi-autonomous and autonomous trucks and buses market by region, with the U.S. at the forefront based on country segmentation. The region's dominance can be attributed to a combination of advanced infrastructure, significant investments in research and development, and strong support from regulatory bodies. The U.S., in particular, benefits from a robust ecosystem of technology firms and automotive manufacturers, including leaders such as Daimler Truck AG, who are pioneering advancements in autonomous driving systems. These companies' expertise in AI, machine learning, and sensor technologies is driving innovations that enhance vehicle performance, safety, and reliability. Additionally, favorable government policies and substantial funding for smart transportation projects are propelling the adoption of semi-autonomous and autonomous trucks and buses, making North America a key player in the market's growth.

Market Segmentation:

Segmentation 1: by Application

Long-Haul Freight Transportation

Mining and Construction

Intercity/Intracity Buses

Agriculture

Waste Management

Logistics and Distribution

Shuttles

Medical and Healthcare Transport Services

Manufacturing

Military

Segmentation 2: by Propulsion

Internal Combustion Engine Vehicles

Electric Vehicles

Battery Electric Vehicles (BEVs)

Hybrid Electric Vehicles (HEVs)

Plug-in Hybrid Electric Vehicles (PHEVs)

Segmentation 3: by Level of Autonomy

Semi-Autonomous

Autonomous

Segmentation 4: by Vehicle Type

Trucks

Buses

Segmentation 5: by ADAS Features

Adaptive Cruise Control (ACC)

Automatic Emergency Braking (AEB)

Blind Spot Detection (BSD)

Lane Keep Assist (LKA)

Intelligent Park Assist (IPA)

Traffic Jam Assist (TJA)

Highway Pilot (HP)

Others

Segmentation 6: by Sensor Type

LiDAR

Radar Sensors

Cameras

Ultrasonic Sensors

Segmentation 7: by Weight Class

Light Duty Trucks and Buses

Medium Duty Trucks and Buses

Heavy Duty Trucks and Buses

Segmentation 8: by Region

North America

Europe

Asia-Pacific

Rest-of-the-World

How can this report add value to an organization?

Product/Innovation Strategy: The global semi-autonomous and autonomous trucks and buses market has been extensively segmented based on various categories, such as application, propulsion, level of autonomy, vehicle type, ADAS features, sensor type, and weight class. This can help readers get a clear overview of which segments account for the largest share and which ones are well-positioned to grow in the coming years.

Competitive Strategy: A detailed competitive benchmarking of the players operating in the global semi-autonomous and autonomous trucks and buses market has been done to help the reader understand how 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 thorough secondary research, which includes analyzing company coverage, product portfolio, market penetration, and insights gathered from primary experts.

Some of the prominent companies in this market are:

Daimler Truck AG

AB Volvo

Scania

Denso Corporation

General Motors

Ford Motor Company

Key Questions Answered in this Report:

What are the main factors driving the demand for semi-autonomous and autonomous trucks and buses market?

What are the major patents filed by the companies active in the semi-autonomous and autonomous trucks and buses market?

Who are the key players in the semi-autonomous and autonomous trucks and buses market, and what are their respective market shares?

What partnerships or collaborations are prominent among stakeholders in the semi-autonomous and autonomous trucks and buses market?

What strategies have the key companies adopted to gain a competitive edge in the semi-autonomous and autonomous trucks and buses market?

What is the futuristic outlook for the semi-autonomous and autonomous trucks and buses market in terms of growth potential?

What is the current estimation of the semi-autonomous and autonomous trucks and buses market, and what growth trajectory is projected from 2024 to 2034?

Which application and product segment is expected to lead the market during the forecast period 2024-2034?

Which regions demonstrate the highest adoption rates for the semi-autonomous and autonomous trucks and buses market, and what factors contribute to their leadership?

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