# Self-Driving Truck Market: $13.1 billion to $41.2 billion Growth Forecast, {2025-2035} | says Allied Market Research

WILMINGTON, NEW CASTLE, DE, UNITED STATES, September 24, 2024 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, “Self-Driving Truck Market," The self-driving truck market size was valued at $13.1 billion in 2025, and is estimated to reach $41.2 billion by 2035, growing at a CAGR of 12.1% from 2025 to 2035.

Self-Driving Truck Market Growth

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A self-driving truck, or autonomous truck, is one that supports the driver while also making decisions and navigating itself out of uncertain situations. Self-driving truck refers to autonomous driving technologies in trucks that allow them to run without human intervention by combining sensors, software, and advanced control systems. Technology is utilized in logistics and transportation to address issues such as driver shortages and to eliminate human errors that might result in road casualties. Self-driving trucks are also utilized to transport goods and commodities to a storage facility from an excavation site in a mine or an unloading zone at a port.

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The global self-driving truck market is driven by factors such as development of intelligent transport system, growth of connected infrastructure and improved safety coupled with reduction in traffic congestion. However, rise security and privacy concerns, and software failures associated with automotive sensors are hampering the growth of the self-driving truck market. On the contrary, decongestion of traffic, and supportive government regulation is expected to offer remunerative opportunities for the expansion of the self-driving truck market during the forecast period.

Autonomous vehicles have several advantages over traditional vehicles from improved safety to reduction in fuel and traffic congestion and emissions. An autonomous truck will be installed with a wider range of sensors such as LiDAR, RADAR, camera, GPS among others. These sensors are short range (providing details of moving objects near the vehicle) as well as long range (providing details of high-speed oncoming vehicles) to help a vehicle sense any object or obstacle in its way, thus eliminating chances of accidents.

Autonomous vehicles can also help reduce traffic congestion. On the basis of a study by University of Illinois, it was proved that one autonomous vehicle stuck in traffic congestion with 20 other human driven vehicles can ease the congestion by controlling the pace of the vehicle. Fuel consumption also reduces with use of autonomous vehicles as fuel use increases when the vehicle slows down. Thus, reduction in traffic congestion and improved fuel efficiency due to self-driving trucks are expected to boost the growth of the self-driving truck market across the globe.

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□□□□□ □□ □□□□□ □□ □□□□□□□□□□□, the level 1 segment is expected to hold the highest market share in 2025, accounting for nearly three-fourths of the global self-driving truck market revenue, as most of the technology such as cruise control is already present and the technology is implemented in most of the vehicles including trucks. However, the level 5 is estimated to be the fastest growing segment with a CAGR of 28.0% during the forecast period, due to development of intelligent transport system and the fast-growing connected infrastructure that will support the level 5 autonomous technology. For instance, in April 2023, Chennai, India, Greater Chennai Corporation with collaboration with other organizations has initiated the intelligent transport system project. The initiation of intelligent transport system projects is expected to give support to the level 5 autonomy in the self-driving truck market.

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□□□□□□ □□ □□□□□□□, North America held the highest market share in terms of revenue in 2025, accounting for more than one-third of the global self-driving truck market revenue, due to the presence of major self-driving companies in the region. However, LAMEA region held the major CAGR of 14.2% in 2035, due to the government support for the self-driving truck technology which attracts many firms who are developing and testing autonomous truck technology. For instance, in May 2023 Einride an electric self-driving truck technology provider has signed a Memorandum of Understanding (MoU) with the UAE government to deploy its ecosystem across 550 kilometers in Abu Dhabi, Dubai, and Sharjah. The expansion of the private players such as Einride in the Middle-East shows the demand of autonomous technology in the region, which helps to grow the self-driving truck market.

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Kodiak Robotics, Inc.
Embark Trucks, Inc.
Einride
RRAI
TuSimple
Jiluo Technology (Shanghai) Co., Ltd.
Torc Robotics.

The report provides a detailed analysis of these key players of the global self-driving truck market. These players have adopted different strategies such as new product launches, collaborations, expansion, joint ventures, agreements, and others to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to showcase the competitive scenario.

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