

Autonomous Journeys : Navigating the Self-Driving Truck Market's Evolution Towards a \$41.2 Billion Industry by 2035

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/EINPresswire.com/ -- Allied Market Research published a report, titled,

[“Self-Driving Truck Market by component \(Hardware, Software, and Services\), by application \(Logistics & Transportation, Construction and Manufacturing, Mining, Ports and others\), by level of automation \(Level 1, Level 2, Level 3, Level 4, and Level 5\), by propulsion type \(Internal Combustion Engine, Hybrid Transmission, Electric](#)

Transmission): Global Opportunity Analysis and Industry Forecast, 2025-2035”. According to the report, the global self-driving truck market is expected to be valued at \$13.11 billion in 2025, and is projected to reach \$41.21 billion by 2035, registering a CAGR of 12.1% from 2025 to 2035.



For more information, please visit - <https://www.alliedmarketresearch.com/request-sample/4388>

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.

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Based on component, the hardware segment is expected to hold the highest market share in 2025, accounting for nearly two-fifths of the global self-driving truck market revenue, as there are numerous companies that provide hardware for self-driving cars and trucks. However, the software segment is estimated to be the fastest growing segment the major CAGR of 13.1% during the forecast period, as it connects or integrates the self-driving truck's hardware so it can perform its job efficiently. The firms are jointly working to provide efficient and reliable software.

Based on level of automation, 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.

For more information on the self-driving truck market, visit <https://www.alliedmarketresearch.com/self-driving-truck-market/purchase-options>

Based on propulsion type, the electric transmission segment is expected to hold the highest market share in 2025, accounting for more than two-fifths of the global self-driving truck market revenue and is estimated to maintain its leadership status throughout the forecast period. The electric vehicles are also used for the transportation of goods and materials. For instance, in April 2023, Einride an electric self-driving truck technology provider enters in the UK market and partnered with PepsiCo to offers its autonomous solution. The development shows the interest of consumer goods firm towards the electric self-driving trucks, thus creating demand for the self-driving truck technology in the market.

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Based on region, 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](#).

Key players in the market are:-

Waabi

Aurora Innovation Inc.

PlusAI, Inc.

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.

For more information, visit <https://www.alliedmarketresearch.com/purchase-enquiry/4388>

At present, the autonomous vehicle market players interested in testing driverless technology need to apply for exemptions to the National Highway and Traffic Safety Administration's (NHTSA) federal motor vehicle safety standards, and the agency only grants 2,500 per year. The Self-Drive Act is projected to increase that cap to 25,000 per year initially, and expand it to 100,000 annually in three years' time. Such developments are expected to create ample opportunities for the growth of the market across the globe.

For more information, visit [https://www.alliedmarketresearch.com/semi-autonomous-and-autonomous-truck-market-](https://www.alliedmarketresearch.com/semi-autonomous-and-autonomous-truck-market-A08510)

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