Self-Driving Truck Market to Reach $41.21 Billion by 2035, Growing at 12.1% CAGR, Driven by AI & Logistics Innovations

Self-Driving Truck Share

WILMINGTON, NEW CASTLE, DE, UNITED STATES, January 31, 2025 /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.

Self-driving trucks, also known as autonomous truck, aims to operate without human input. Sensors, such as Lidar, radar, cameras, ultrasonic, and GPS, and complex algorithms are essential for self-driving technology.

□ □□□□□□□□ □□□□□□ □□□□□ - https://www.alliedmarketresearch.com/request-sample/4388

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.

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.

Moreover, the market is witnessing suitable growth in recent years, owing to the development of intelligent transport system. Moreover, the key manufacturers operating in the industry have been inclined towards developing and testing autonomous level 4 technology, where the autonomous system drives the truck by itself, but the manual override option is provided for the driver to take control at the moment of an emergency. For instance, TuSimple Holdings has started Level 4 autonomous testing on a critical Japanese freight corridor, in January 2023. Similarly, in September 2019, Daimler Trucks and Torc Robotics worked together to create and test SAE Level 4 intent technology autonomous trucks on public roads. All automated runs are overseen by an engineer and a highly trained safety driver certified by Daimler Trucks and Torc Robotics. Torc Robotics uses public road testing to construct and refine the system so that it can produce the required results. Such developments create a wider scope for the growth of the market across the globe.

□ □□□□□□□□□□ □□ □□□□□□□ □□□ □□□□□□□□ □□□□□□? □□□□□□□ □□□□□□ □□□□□□ - 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.

Moreover, the 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 hamper the growth of the market. On the contrary, decongestion of traffic and supportive government regulation to foster growth are the major factors that are expected to provide lucrative opportunities for the market growth during the forecast period.

□□□□□□□ □□□□□□ □□□□□□□: -

Waabi
Aurora Innovation Inc.
PlusAI, Inc.

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

□ □□□□□□□□ □□□□□□□□□ □□□□□□□□□ □□□□□□□ □□□: https://www.alliedmarketresearch.com/self-driving-truck-market/purchase-options

□□□□□□□□ □□□□□□□□ □□ □□□□□ □□ □□□□□□□□□□□□ □□□□□□□□□ □□□□□□□□□:

https://www.alliedmarketresearch.com/autonomous-bus-door-system-market-A06270 - Autonomous Bus Door System Market Size, Share, Competitive Landscape and Trend Analysis Report, by Bus Type, Door Type, Mechanism, Level of Automation, Propulsion Type and, by Component : Global Opportunity Analysis and Industry Forecast, 2020-2027

https://www.alliedmarketresearch.com/railway-telematics-market-A12206 - Railway Telematics Market Size, Share, Competitive Landscape and Trend Analysis Report, by Solution, Mode of Operation and Train Type : Global Opportunity Analysis and Industry Forecast, 2021-2030

https://www.alliedmarketresearch.com/automotive-artificial-intelligence-market - Automotive Artificial Intelligence Market Size, Share, Competitive Landscape and Trend Analysis Report, by Component, by Technology, by Application : Global Opportunity Analysis and Industry Forecast, 2023-2032

https://www.alliedmarketresearch.com/autonomous-bike-market-A11610 - Autonomous Bike Market Size, Share, Competitive Landscape and Trend Analysis Report, by Technology, Level of Autonomy and Vehicle Type : Global Opportunity Analysis and Industry Forecast, 2027-2035

https://www.alliedmarketresearch.com/autonomous-cranes-market-A12175 - Autonomous Cranes Market Size, Share, Competitive Landscape and Trend Analysis Report, by Business Type, Mobility and End User Vertical : Global Opportunity Analysis and Industry Forecast, 2023-2032

https://www.alliedmarketresearch.com/hd-map-for-autonomous-vehicles-market-A12178 - HD Map for Autonomous Vehicles Market Size, Share, Competitive Landscape and Trend Analysis Report, by Service Type, by Vehicle Type, by Usage Type, by Solution, by Level of Automation : Global Opportunity Analysis and Industry Forecast, 2025-2035

About Us

Allied Market Research (AMR) is a full-service market research and business-consulting wing of

Allied Analytics LLP based in Portland, Oregon. Allied Market Research provides global enterprises as well as medium and small businesses with unmatched quality of "Market Research Reports" and "Business Intelligence Solutions." AMR has a targeted view to provide business insights and consulting to assist its clients to make strategic business decisions and achieve sustainable growth in their respective market domain.

We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Allied Market Research CEO Pawan Kumar is instrumental in inspiring and encouraging everyone associated with the company to maintain high quality of data and help clients in every way possible to achieve success. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

David Correa
Allied Market Research
+ 1 800-792-5285
email us here
Visit us on social media:
Facebook
X
LinkedIn
YouTube