

Asia-Pacific Semi & Fully Autonomous Vehicle Market By Automation Level (L0, L1, L2, L3, L4, L5), By Component (Embedded System, Camera, Others), By Vehicle Type (Passenger Car, Commercial Vehicle), By Country, Competition, Forecast & Opportunities, 2019-2029F

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Abstracts

Asia-Pacific Semi & Fully Autonomous Vehicle Market was valued at USD 14.86 Billion in 2023 and is expected to reach USD 27.59 Billion by 2029 with a CAGR of 10.87% during the forecast period. The Asia-Pacific semi and fully autonomous vehicle market is driven by innovations in AI, machine learning, and sensor technologies, enhancing vehicle functions and safety. Growing demand for advanced safety features, reduced human error, and better driving experiences accelerates the adoption of autonomous vehicles. Market trends include the rising use of AI-powered systems, like advanced driver assistance systems (ADAS), for more accurate navigation and vehicle control. The increasing shift toward electric vehicles (EVs) and the creation of smart city infrastructure to support autonomous mobility are unlocking major prospects. Governments in the region are also providing incentives and frameworks to encourage autonomous vehicle adoption, boosting market expansion. However, challenges remain, including the high cost of development and manufacturing, regulatory complexities, and concerns regarding cybersecurity for connected vehicles. The slow pace of infrastructure progress to support autonomous vehicles remains a significant hurdle. For instance, In 2024, BYD, a Chinese automaker, has unveiled a new hybrid powertrain that can travel over 2,000 kilometers without recharging or refueling, surpassing the capabilities of its rivals like Toyota and Volkswagen. This technology will be launched in two affordable sedans, showcasing BYD's advancements in reducing fuel consumption and its dominance in the Chinese hybrid market. The company's efforts to solve range

anxiety and make vehicles more environmentally friendly align with the global industry trend.

Key Market Drivers

Government Support and Regulation

Governments across the Asia-Pacific region are actively supporting the development and deployment of autonomous vehicles through regulatory frameworks and policy initiatives. Many countries have established guidelines and standards to ensure the safe testing and operation of autonomous vehicles on public roads. For example, Japan, South Korea, and Singapore have created designated zones and testbeds for autonomous vehicle trials. These regulatory measures provide a clear path for manufacturers and technology companies to develop and showcase their autonomous technologies, fostering innovation and market growth. For Instance, Japan, the world's third-largest auto manufacturing industry by volume, serves as a prime example. Japan's Road Transport Vehicle Act and Road Traffic Act have recently been updated to include AV safety provisions. The Republic of Korea is the world's seventh largest automobile manufacturing economy by volume and also provides an excellent example. In 2019, the Ministry of Land, Infrastructure, and Transport (MOLIT) released new safety guidelines for autonomous vehicles.

Safety and Reduced Accidents

One of the primary drivers of autonomous vehicles in the Asia-Pacific region is the potential to significantly enhance road safety. With a high rate of road accidents and fatalities in many countries, autonomous vehicles offer the promise of reducing human error, which is a leading cause of accidents. Advanced sensors, artificial intelligence, and real-time data analysis enable autonomous vehicles to make split-second decisions and respond to changing road conditions, potentially saving lives and reducing the economic impact of accidents. The alarming increase in road accidents, fatalities, and injuries reported in the 'Annual Report on Road Accidents in India-2022' published by the Ministry of Road Transport and Highways serves as a significant driver for the Asia-Pacific Semi & Fully Autonomous Vehicle Market. With 4,61,312 road accidents resulting in 1,68,491 deaths and 4,43,366 injuries in 2022, marking an 11.9% rise in accidents, a 9.4% rise in fatalities, and a 15.3% rise in injuries compared to the previous year, there is a pressing need for enhanced road safety measures. The stark statistics underscore the critical need for advanced vehicle technologies to mitigate human error, which is a leading cause of road accidents. Semi-autonomous (Level 2) and fully

autonomous vehicles offer promising solutions by incorporating advanced driver assistance systems (ADAS) and autonomous driving capabilities. These technologies can significantly reduce the likelihood of accidents through features such as automatic emergency braking, lane-keeping assistance, and adaptive cruise control. The report's findings highlight the urgency for adopting such innovations to enhance road safety, making it a strong impetus for the growth of the semi & fully autonomous vehicle market in the Asia-Pacific region. This drive towards safer roads is likely to accelerate the development and adoption of autonomous vehicle technologies, promoting a safer and more efficient transportation ecosystem.

Traffic Congestion and Urbanization

Asia-Pacific is home to some of the world's most densely populated cities, leading to severe traffic congestion and air pollution. Autonomous vehicles have the potential to address these urban mobility challenges by optimizing traffic flow, reducing congestion, and improving the overall efficiency of transportation systems. For Instance, Jakarta's traffic congestion worsened in 2023 despite a slight improvement in its global ranking, as the average Jakartan spent 10 hours and 21 minutes more in rush hour traffic compared to 2022. Self-driving vehicles can communicate with each other and traffic infrastructure, leading to smoother traffic patterns and reduced travel times. This is particularly important as urbanization continues to accelerate in the region.

Technological Advancements

Asia-Pacific is a hub for technological innovation, with leading companies investing heavily in autonomous vehicle research and development. Advances in sensor technology, machine learning, and artificial intelligence are driving the development of autonomous vehicles with improved capabilities. Local startups and global technology giants are collaborating on autonomous vehicle projects, leading to the rapid advancement of self-driving technology and contributing to market growth.

Ride-Hailing and Mobility Services

The rise of ride-hailing services and shared mobility platforms in the Asia-Pacific region has created a strong demand for autonomous vehicles. Companies like Uber, Didi Chuxing, and Grab are exploring autonomous ride-hailing services as a way to reduce labor costs and improve service reliability. This trend is expected to drive the adoption of autonomous vehicles, as these platforms seek to integrate self-driving cars into their fleets, providing passengers with more convenient and cost-effective transportation

options.

Environmental Sustainability

Environmental concerns are driving the adoption of electric and autonomous vehicles in Asia-Pacific. Many countries in the region are setting ambitious targets for reducing greenhouse gas emissions and improving air quality. Autonomous electric vehicles (EVs) are seen as a sustainable solution to achieve these goals. The combination of autonomy and electrification can lead to reduced emissions, as autonomous EVs can optimize routes and energy consumption. Governments are providing incentives and subsidies to promote the adoption of electric and autonomous vehicles as part of their environmental policies.

Key Market Challenges

Technological Complexity and Reliability

Developing the advanced technology required for semi and fully autonomous vehicles is a formidable challenge. Autonomous vehicles rely on a complex array of sensors, cameras, radar, Lidar, and advanced artificial intelligence algorithms to navigate and make real-time decisions. Ensuring the reliability and safety of these systems is critical. Autonomous vehicles must be capable of operating under various weather conditions, road scenarios, and in environments with different levels of infrastructure and connectivity. Achieving the necessary level of technological maturity and robustness is a significant hurdle for the industry.

Regulatory Frameworks and Standards

Establishing comprehensive and harmonized regulatory frameworks and standards for autonomous vehicles is a challenge that spans multiple countries and regions within the Asia-Pacific. Each country may have its own set of rules and standards, making it difficult for manufacturers to navigate the regulatory landscape. Ensuring the safety, liability, and certification of autonomous vehicles requires close collaboration between governments, industry stakeholders, and international organizations. Achieving regulatory alignment and providing a clear path to compliance is crucial for the successful deployment of autonomous vehicles.

Infrastructure Readiness

The widespread adoption of autonomous vehicles depends on the readiness of existing infrastructure. Autonomous vehicles require accurate and up-to-date mapping data, robust communication networks, and intelligent transportation systems (ITS) to function optimally. In many parts of the Asia-Pacific, road infrastructure may not be adequately maintained or equipped to support autonomous driving. Developing the necessary infrastructure and ensuring connectivity in both urban and rural areas is a significant challenge. Accommodating autonomous vehicles may require dedicated lanes, signage, and traffic management systems, which further complicates infrastructure planning.

Safety and Liability Concerns

Safety remains a paramount concern in the development and deployment of autonomous vehicles. While the technology has the potential to reduce accidents caused by human error, it also introduces new safety challenges, such as determining liability in the event of accidents or malfunctions. Establishing a clear framework for liability, insurance, and accident investigation is essential. Ensuring that autonomous vehicles can communicate with each other and with infrastructure to prevent collisions and ensure safe operation is also a critical challenge.

Public Acceptance and Trust

Gaining public acceptance and trust in autonomous vehicles is an ongoing challenge. Many people have reservations about relinquishing control to self-driving vehicles and may be concerned about the safety and reliability of the technology. Addressing these concerns requires extensive public education and awareness campaigns, as well as transparency in the development and testing of autonomous systems. Proving the safety and benefits of autonomous vehicles through rigorous testing and real-world deployments is crucial for building trust among consumers and stakeholders.

Cybersecurity and Data Privacy

Autonomous vehicles are highly reliant on data and connectivity, which makes them vulnerable to cybersecurity threats. Ensuring the security of autonomous vehicle systems and protecting sensitive data from cyberattacks is a significant challenge. The potential consequences of a cyber breach in an autonomous vehicle are grave, as it could compromise safety and privacy. Implementing robust cybersecurity measures, encryption, and secure communication protocols is imperative. Addressing data privacy concerns related to the collection and use of passenger and vehicle data is an ongoing challenge, especially in the context of data regulations and consent.

Key Market Trends

Rapid Advancements in Autonomous Technology

The Asia-Pacific region is witnessing rapid advancements in autonomous vehicle technology. Companies, both domestic and international, are heavily investing in research and development to enhance the capabilities of autonomous vehicles. This includes improvements in sensor technologies, artificial intelligence, machine learning, and real-time data analysis. These advancements are paving the way for higher levels of autonomy, increased safety, and improved navigation in complex urban environments. As technology continues to evolve, Asia-Pacific countries are positioning themselves as leaders in autonomous vehicle innovation.

Diverse Range of Mobility Services

Beyond private ownership, the Asia-Pacific region is witnessing a proliferation of autonomous mobility services. Ride-hailing platforms, delivery services, and autonomous shuttles are becoming increasingly common. Companies like Didi Chuxing, Baidu, and Grab are testing and deploying autonomous ride-hailing services in select cities. Autonomous delivery vehicles are being used for last-mile logistics, providing convenient and efficient solutions for e-commerce companies. The rise of these diverse mobility services is transforming the transportation landscape in the region.

Urbanization and Smart Cities

The trend toward urbanization in Asia-Pacific is driving the development of smart cities and the adoption of autonomous vehicles. Many governments in the region are investing in smart infrastructure and transportation systems to improve urban mobility. Autonomous vehicles are seen as a key component of these smart city initiatives. They have the potential to reduce traffic congestion, enhance transportation efficiency, and improve overall quality of life in densely populated urban areas. As Asia-Pacific cities continue to grow, the integration of autonomous vehicles into smart city ecosystems is expected to accelerate.

Collaborations and Partnerships

Collaboration and partnerships between automotive manufacturers, technology companies, and governments are becoming increasingly common in the Asia-Pacific

autonomous vehicle market. Automotive giants like Toyota, Honda, and Hyundai are partnering with technology companies to leverage their expertise in autonomous technology. Governments are also collaborating with private sector stakeholders to create testing environments and regulatory frameworks that support autonomous vehicle development and deployment. These partnerships are critical for pooling resources, knowledge, and expertise to accelerate the growth of the autonomous vehicle market.

Focus on Electric and Hybrid Autonomous Vehicles

The Asia-Pacific region is showing a strong focus on electric and hybrid autonomous vehicles as part of broader sustainability efforts. Electric autonomous vehicles are seen as a way to reduce emissions and combat air pollution in densely populated cities. Countries like China, Japan, and South Korea are promoting electric and hybrid vehicle adoption through incentives, charging infrastructure development, and regulatory measures. As a result, many autonomous vehicle projects in the region are incorporating electric or hybrid propulsion systems to align with environmental goals.

AI-Powered Autonomous Features in Conventional Vehicles

Another notable trend is the integration of AI-powered autonomous features into conventional vehicles. This includes advanced driver-assistance systems (ADAS) that offer features such as adaptive cruise control, lane-keeping assistance, and automated parking. These features are increasingly common in new vehicles and serve as stepping stones toward fully autonomous driving. Consumers are showing a growing interest in vehicles equipped with ADAS, which provide enhanced safety and convenience. The adoption of these features is expected to continue as automakers prioritize safety and autonomy.

Segmental Insights

Component Insights

The camera segment dominated the Asia-Pacific semi- and fully autonomous vehicle market due to its critical role in enabling advanced driver-assistance systems (ADAS) and autonomous driving functionalities. Cameras are integral to vision-based systems, providing real-time data for object detection, lane departure warnings, and traffic sign recognition. Their ability to deliver high-resolution imagery makes them indispensable for ensuring the safety and precision of autonomous navigation.

A key driver for camera adoption is the increasing integration of Level 2 and Level 3 automation features in passenger and commercial vehicles in the region. As automakers aim to enhance safety and comply with stringent regulations, cameras are pivotal for achieving these objectives. Their cost-effectiveness compared to other sensing technologies, such as LiDAR, positions them as a preferred choice in mass-market vehicles, especially in cost-sensitive markets like India and China.

Technological advancements, such as surround-view cameras and AI-powered image processing, are further propelling the segment. These innovations enhance functionality, providing better obstacle recognition and environmental mapping, which are crucial for semi- and fully autonomous systems. The growing adoption of electric vehicles (EVs), which often come equipped with advanced ADAS features, is boosting the demand for camera systems.

The camera segment's dominance in the Asia-Pacific semi- and fully autonomous vehicle market is driven by its versatility, cost efficiency, and ability to support critical automation features, making it an essential component in the region's push toward autonomous mobility.

Country Insight

China dominated the Asia-Pacific semi- and fully autonomous vehicle market due to its rapid advancements in automotive technology, robust industrial ecosystem, and supportive government policies. The nation leads in the adoption and development of autonomous driving technologies, driven by a combination of extensive R&D investments, strategic partnerships, and a strong push for innovation from both private companies and public institutions.

China's extensive automotive manufacturing base, combined with its expertise in electronics and software development, enables cost-effective production and integration of autonomous driving components such as sensors, cameras, and AI processors. This manufacturing strength is complemented by the country's leadership in 5G technology, which is critical for enabling vehicle-to-everything (V2X) communication—a key feature of semi- and fully autonomous systems.

The government plays a pivotal role in fostering the autonomous vehicle ecosystem by introducing favorable policies, funding pilot projects, and establishing testing zones in cities like Beijing, Shanghai, and Shenzhen. These initiatives accelerate technology

validation and commercialization. Consumer demand for advanced driver-assistance systems (ADAS) and intelligent vehicles in China is on the rise, fueled by increasing disposable incomes and a preference for technology-driven features.

China's urban planning and infrastructure development also support autonomous vehicle deployment, with smart cities and dedicated testing environments facilitating seamless integration. In conclusion, China's dominance stems from its technological expertise, manufacturing capabilities, supportive policies, and a forward-thinking approach, positioning it as a leader in the Asia-Pacific semi- and fully autonomous vehicle market.

Key Market Players

Hyundai Motor Company

Daimler Truck AG

SAIC Motor Corporation Limited

Toyota Motor Corporation

Nissan Motor Corporation

AB Volvo

General Motors Company

Volkswagen AG

Tesla Inc.

BMW AG

Report Scope:

In this report, the Asia-Pacific Semi & Fully Autonomous Vehicle Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Asia-Pacific Semi & Fully Autonomous Vehicle Market, By Automation Level:

L0

L1

L2

L3

L4

L5

Asia-Pacific Semi & Fully Autonomous Vehicle Market, By Vehicle Type:

Passenger Car

Commercial Vehicle

Asia-Pacific Semi & Fully Autonomous Vehicle Market, By Component:

Embedded System

Camera

Others

Asia-Pacific Semi & Fully Autonomous Vehicle Market, By Country:

China

India

Japan

Indonesia

Thailand

South Korea

Australia

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Asia-Pacific Semi & Fully Autonomous Vehicle Market.

Available Customizations:

Asia-Pacific Semi & Fully Autonomous Vehicle Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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