

2025 Automotive Technology Research Review

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Abstracts

The global automotive industry is experiencing transformation, driven by the adoption of technologies such as artificial intelligence (AI), machine learning (ML), the Internet of Things (IoT), and next-generation connectivity. These technologies are reshaping the automotive value chain, impacting vehicle design, manufacturing processes, safety systems, and overall sustainability initiatives. With the increase in connected and autonomous vehicles, automotive cybersecurity has become critical, requiring comprehensive security frameworks and real-time threat detection systems.

Manufacturers are investing in cybersecurity solutions to protect vehicles against evolving threats and ensure safe, reliable operations. The growing adoption of electric vehicles is accelerating demand for advanced battery management systems that improve efficiency and extend battery life. These systems help optimize energy usage, enhance performance, and ensure reliability in modern electric and hybrid vehicle platforms.

Automotive sensor technologies play a vital role in enabling autonomous driving, advanced driver assistance systems (ADAS), and continuous vehicle monitoring. These sensors support real-time data collection and analysis, improving vehicle safety, navigation accuracy, and overall driving experience. The global neighborhood electric vehicles market is gaining traction as urban areas seek affordable and environmentally friendly transportation alternatives. The hydrogen truck market is expanding rapidly as industries adopt zero-emission solutions for heavy-duty and long-haul transportation. Hydrogen-powered trucks offer advantages including faster refueling times, longer driving range, and higher payload capacity. These capabilities position hydrogen trucks as a promising solution for sustainable, efficient freight transportation in the future.

Research Reviews from BCC Research provide market professionals with concise market coverage within a specific research category. This 2025 Research Review of automotive technology provides a sampling of the type of quantitative market

information, analysis, and guidance that BCC Research has been developing since its inception in 1971 to help its customers make informed business decisions. This Research Review includes highlights and excerpts from the following reports published by BCC Research in 2025:

IAS205A Automotive Cybersecurity: Global Markets

IAS143B Automotive Battery Management System: Global Markets

IAS018J Global Markets for Automotive Sensor Technologies

FCB077A Global Neighborhood Electric Vehicles Market

FCB075A Global Market for Hydrogen Trucks

After you survey the excerpts in this Research Review, we encourage you to follow up on these topics by checking out the full market research reports associated with each topic. BCC Research looks forward to serving your market intelligence needs in the future.

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