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Automotive Blockchain Technology Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Automotive Blockchain Technology Market was valued at USD 300 million in 2024 and is estimated to grow at a CAGR of 29% to reach USD 3.77 billion by 2034.

As vehicles become increasingly connected and software-driven, automakers are facing growing concerns around data integrity, cybersecurity, and real-time communication. Blockchain offers a decentralized, tamper-proof system to securely track and verify data across a vehicle's lifecycle from manufacturing and parts sourcing to software updates and ownership transfers.

Increasing Prevalence of Public Blockchain

The public blockchain segment is expected to gain strong traction through 2034 driven by its unmatched transparency and decentralized structure. Public blockchains allow multiple stakeholders including automakers, regulators, suppliers, and end-users to access and verify data in real-time, without relying on a central authority. This model is particularly useful for vehicle history tracking, ownership records, and shared mobility applications.

Rising Adoption of Solutions

The solutions segment from the automotive blockchain technology market held sizeable share in 2024. Automakers and fleet operators are increasingly investing in end-to-end blockchain platforms that offer a complete suite of services from smart contract execution to supply chain management and data authentication. These solutions reduce operational overhead, enhance transparency, and help companies to future-proof their

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digital infrastructure.

Passenger Cars to Gain Traction

The passenger cars segment held substantial share in 2024, owing to the rapid integration of digital technologies in modern vehicles. As consumers demand smarter, safer, and more connected driving experiences, automakers are leveraging blockchain to secure over-the-air (OTA) updates, manage vehicle identity, and enable data monetization models. From ride-hailing to subscription models, blockchain ensures that every transaction and data point tied to a car is secure and traceable.

Regional Insights

North America to Emerge as a Lucrative Region

North America automotive blockchain technology market generated significant revenues in 2024, driven by a robust digital infrastructure, high R&D spending, and strong industry partnerships. U.S. based OEMs and technology giants are leading the charge with pilot projects in digital vehicle titles, EV battery tracking, and autonomous vehicle data verification. The region also benefits from regulatory openness to blockchain innovation, allowing automotive companies to scale new solutions with fewer barriers.

Major players involved in the automotive blockchain technology market include MOBI, Amazon, SAP SE, Tech Mahindra Limited, IBM Corporation, BigchainDB GmbH, Microsoft Corporation, Oracle Corporation, R3, Accenture plc.

Leading players in the automotive blockchain technology market are pursuing strategic collaborations, pilot programs, and product innovation to strengthen their market position. Companies are offering blockchain-as-a-service (BaaS) platforms to automotive OEMs, enabling faster and more secure deployment. Firms such as R3 and BigchainDB are focusing on developing customizable blockchain protocols tailored for supply chain, data security, and smart contract applications. Meanwhile, MOBI, a consortium of automakers and tech firms, is building industry-wide standards to promote interoperability.

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