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Blockchain Technology In Healthcare Market Forecasts to 2032 – Global Analysis By Network Type (Private Networks, Public Networks, Consortium Networks and Other Network Types), Deployment Mode, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Blockchain Technology In Healthcare Market is accounted for $18.31 billion in 2025 and is expected to reach $520.33 billion by 2032 growing at a CAGR of 61.3% during the forecast period. Blockchain technology is improving data security, transparency, and interoperability, which is transforming the healthcare sector. It makes it possible for patient records to be stored securely and decentralized, guaranteeing that only individuals with permission can access private medical data. This increases stakeholder trust and lowers the chance of data breaches. Additionally, by offering a tamper-proof, auditable record of transactions, blockchain can expedite procedures like supply chain management, billing, and clinical trials. Better patient outcomes, lower administrative costs, and better care coordination can result from its capacity to facilitate real-time data sharing among healthcare providers.

According to the World Health Organization, up to 10% of global pharmaceuticals are counterfeit, posing serious patient safety risks. Blockchain-based tracking systems are being deployed to help authenticate medications and keep counterfeits out of the supply chain.

Market Dynamics:

Driver:

The necessity of interoperability

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Healthcare systems often operate in silos, using different electronic health record (EHR) systems that don’t communicate effectively with one another. Ineffective communication, repeated diagnostics, and fragmented care are the results of this lack of interoperability. A single version of a patient's records can be accessed and updated in real time by a variety of healthcare organizations, including hospitals, clinics, pharmacies, and insurers, while preserving a safe and auditable history. Moreover, blockchain can serve as a unified framework for storing and sharing health data.

Restraint:

Absence of standardization

One of the biggest obstacles to adoption in the healthcare industry is the lack of standardized blockchain protocols and data formats. It is challenging for systems to work together because different blockchain platforms employ different architectures, consensus methods, and data structures. Integration with current healthcare systems, such as Electronic Health Records (EHRs), becomes difficult and prone to errors in the absence of a widely recognized standard for storing and exchanging health data on blockchain. Additionally, this fragmentation makes it more difficult for researchers, regulatory agencies, and healthcare providers to work together.

Opportunity:

Enhanced control and ownership of patient data

Blockchain can empower patients to have full ownership of their medical records. Instead of depending on centralized organizations, people can use private keys to manage, share, and revoke access to their data with blockchain-based health data systems. This makes it possible to develop patient-centered healthcare platforms that facilitate transparent and easy consent management, data sharing for second opinions, and record transfers between providers. Furthermore, it promotes patient responsibility and involvement in controlling individual health outcomes.

Threat:

Opposition from conventional stakeholders

The healthcare sector has a strict regulatory framework and a conservative history.

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Many regulators, healthcare organizations, and professionals may be skeptical of or actively opposed to blockchain because they see it as an unfamiliar and disruptive technology. Due to concerns about losing control over patient data, workflow disruptions, or job displacement, stakeholders who are accustomed to current systems might be reluctant to embrace blockchain. Moreover, the deployment of blockchain technology may stall if there isn't broad support, particularly from major organizations and governments.

Covid-19 Impact:

Blockchain adoption in the healthcare industry was greatly accelerated by the COVID-19 pandemic, which brought attention to the pressing need for safe, open, and effective data sharing. Blockchain became a feasible way to guarantee data integrity, traceability, and interoperability as healthcare systems around the world struggled to manage patient data, vaccine distribution, and supply chain transparency. Through safe data exchange, it enabled remote health monitoring and telemedicine, expedited vaccine certification, and enabled real-time tracking of medical supplies. However, the crisis served as a spur, raising interest in and funding for blockchain-based medical solutions and laying the groundwork for the sector's long-term digital transformation.

The private networks segment is expected to be the largest during the forecast period

The private networks segment is expected to account for the largest market share during the forecast period. High security, regulated access, and adherence to strict healthcare laws like HIPAA and GDPR are the main causes of this dominance. Private blockchains guarantee the confidentiality and integrity of sensitive medical data by enabling regulatory agencies, insurers, and healthcare providers to control data access in a permission setting. They are ideal for applications like supply chain management, insurance claim processing, and electronic health records (EHRs) because of their capacity to provide faster transaction speeds, effective governance, and customized solutions. Furthermore, private networks are now the go-to option for government health programs and large healthcare organizations.

The cloud-based segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the cloud-based segment is predicted to witness the highest growth rate. This expansion is being driven by the increasing demand for blockchain solutions that are low-cost, scalable, and flexible and that can be quickly deployed

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without requiring significant infrastructure investments. Real-time data access, simple system integration, and remote collaboration amongst healthcare stakeholders, such as hospitals, insurers, and research institutes, are all made possible by cloud-based platforms. Additionally, the need for secure cloud infrastructure driven by blockchain is growing as more healthcare providers use telemedicine, digital health apps, and remote monitoring. The cloud model is perfect for contemporary, data-driven healthcare ecosystems because it can accommodate large-scale deployment, remote access, and continuous updates.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, principally propelled by its sophisticated healthcare system, robust presence of top blockchain technology suppliers, and early adoption of cutting-edge digital solutions. Strong government programs encouraging health IT innovations, large R&D expenditures, and a strong need for safe, interoperable health data systems all benefit the area. When it comes to using blockchain for patient identity verification, insurance claims processing, drug supply chain tracking, and electronic health records (EHRs), the US is leading the way. Moreover, the dominance of North America in this market is further reinforced by favorable regulations and robust partnerships between healthcare providers and tech companies.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by the swift advancement of digital technology, the growth of healthcare infrastructure, and the growing backing of the government for the adoption of blockchain. For the purpose of managing expanding populations and increasing healthcare demands, nations such as China, India, South Korea, and Singapore are making significant investments in healthcare innovation and data security. Block chain’s capacity to improve transparency, interoperability, and data integrity is also helping the region's telemedicine, health tech startups, and cross-border medical tourism industries. Additionally, the Asia-Pacific public and private healthcare sectors are adopting blockchain technology more quickly due to positive regulatory developments and growing awareness of its potential.

Key players in the market

Some of the key players in Blockchain Technology In Healthcare Market include

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Change, Healthcare, IBM, BurstIQ, Medicalchain SA, Guardtime Health, Oracle, Blockpharma, Patientory Inc, Avaneer Health, iSolve, LLC, Pokitdok, IRYO, Dentacoin, FarmaTrust and Blockpill.

Key Developments:

In June 2025, Oracle unveiled a new research and development (R&D) centre in Casablanca to fast-track innovation across its rapidly growing cloud and AI solutions. Equipped with state-of-the-art technologies, the new Oracle R&D centre will employ 1000 Moroccan IT professionals.

In April 2025, IBM and BNP Paribas announce the renewal and strengthening of the bank’s partnership with IBM Cloud for 10 years, aimed at further bolstering its resilience, accelerating its cloud-native strategy, and supporting the development of generative artificial intelligence. This multi-year partnership is part of the bank's ongoing technology investments and multicloud strategy to support business growth, benefiting customers and employees.

In June 2023, BurstIQ announces the acquisition of Olive AI's business intelligence solution. This strategic move expands BurstIQ's portfolio of innovative products, reinforcing its commitment to helping healthcare organizations navigate the complexities of data-driven solutions while maintaining strict privacy and compliance standards. The acquired solution, now known as LifeGraph Intelligence, further enhances BurstIQ's offerings, revolutionizing how organizations see and use their data.

Network Types Covered:

- Private Networks
- Public Networks
- Consortium Networks
- Other Network Types

Deployment Modes Covered:

- On-Premise

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Cloud-Based

Hybrid

Applications Covered:

Clinical Data Exchange & Interoperability

Pharmaceutical Supply Chain Management

Claims Adjudication & Billing

Electronic Health Records (EHR)

Genomics & Cell Therapy Logistics

Clinical Trials & Research

Other Applications

End Users Covered:

Healthcare Providers (Hospitals, Clinics)

Healthcare Payers

Biopharmaceutical & Medical Device Companies

Patients and Health Data Brokers

Regulators & Research Institutions

Other End Users

Regions Covered:

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North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

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Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

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Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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