

Blockchain in Healthcare Market Forecasts to 2032 – Global Analysis By Component (Platforms, Services, and Solutions), Technology, Deployment Mode, Organization Size, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Blockchain in Healthcare Market is accounted for \$13.10 billion in 2025 and is expected to reach \$119.19 billion by 2032 growing at a CAGR of 37.08% during the forecast period. Blockchain in healthcare refers to the application of decentralized, secure, and immutable digital ledger technology to manage sensitive medical data. It enhances interoperability, transparency, and patient control over health records while reducing fraud and errors. By enabling safe data sharing among providers, insurers, and patients, blockchain improves efficiency and trust. Its integration supports clinical research, supply chain tracking, and regulatory compliance, ultimately advancing healthcare delivery and patient outcomes.

According to the US Department of Commerce, in 2020, surgical and medical instrument manufacturing in the medical devices industry generated the highest sales, at approximately USD 36.3 billion.

Market Dynamics:

Driver:

Rising demand for secure health data exchange

Blockchain technology is gaining traction as a decentralized solution to enhance transparency and reduce data silos across hospitals, insurers, and research institutions.

As patient-centric care models evolve, the demand for real-time access to longitudinal health data is accelerating. Emerging trends include smart contracts for consent management and blockchain-enabled health information exchanges. Governments and private players are investing in pilot programs to validate blockchain's role in improving data integrity and auditability. The convergence of AI and blockchain is also enabling predictive analytics while preserving patient privacy.

Restraint:

Lack of standardized healthcare blockchain protocols

Fragmented protocols across platforms make interoperability and regulatory compliance challenging. Startups and legacy systems often struggle to align with evolving data governance frameworks, slowing integration efforts. The complexity of mapping clinical workflows to blockchain architecture adds further barriers. Regulatory bodies have yet to issue comprehensive guidelines for blockchain validation, leaving stakeholders uncertain about implementation risks. Without harmonized standards, scalability and cross-border data exchange remain limited.

Opportunity:

Growing use in drug supply chain management

Counterfeit drug prevention, real-time tracking, and automated compliance reporting are driving adoption across supply chains. Technologies like IoT sensors and RFID tags are being integrated with blockchain to ensure end-to-end visibility. Regulatory agencies are encouraging blockchain-based serialization to meet global drug safety mandates. Emerging markets are leveraging blockchain to streamline procurement and reduce pilferage in public health systems. This trend is unlocking new opportunities for secure inventory management and predictive demand forecasting.

Threat:

Risk of cyberattacks and data breaches

While blockchain offers robust encryption, healthcare systems remain vulnerable to sophisticated cyber threats targeting endpoints and smart contracts. The decentralized nature of blockchain can complicate incident response and breach containment. As blockchain networks scale, attack surfaces expand, especially in hybrid cloud

environments. Emerging threats include quantum computing risks and zero-day exploits in blockchain protocols. Healthcare providers must invest in multi-layered cybersecurity frameworks and continuous monitoring to safeguard sensitive data. Without proactive threat mitigation, trust in blockchain-based health systems could erode.

Covid-19 Impact

The pandemic accelerated digital health adoption, spotlighting blockchain's potential in managing vaccine distribution and patient data. Lockdowns disrupted traditional data exchange channels, prompting a shift toward decentralized platforms for remote monitoring and diagnostics. Blockchain was deployed in several pilot programs to track vaccine cold chains and verify immunization records. Regulatory bodies fast-tracked approvals for blockchain-based health apps to support contact tracing and outbreak management. Post-pandemic strategies now emphasize resilience, data sovereignty, and secure telehealth infrastructure.

The platforms segment is expected to be the largest during the forecast period

The platforms segment is expected to account for the largest market share during the forecast period, due to its foundational role in enabling blockchain infrastructure across healthcare applications. These platforms support smart contract execution, data validation, and interoperability between disparate systems. Key developments include modular blockchain stacks tailored for clinical trials, insurance claims, and patient identity management. Vendors are increasingly offering customizable platforms with built-in compliance features to meet HIPAA and GDPR standards. Integration with cloud services and AI analytics is enhancing platform scalability and performance. As healthcare providers seek end-to-end solutions, platform adoption continues to surge.

The patients & health-data brokers segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the patients & health-data brokers segment is predicted to witness the highest growth rate, driven by rising demand for data ownership and monetization. Blockchain empowers individuals to control access to their health records and participate in data-sharing ecosystems. Emerging models include tokenized incentives for sharing anonymised data with researchers and insurers. Health-data brokers are leveraging blockchain to aggregate and validate datasets for AI training and clinical insights. Start-ups are launching decentralized apps that allow patients to manage consent and track data usage. As personalized medicine gains momentum,

this segment is becoming central to blockchain-enabled healthcare innovation.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share driven by rapid digital transformation and expanding healthcare infrastructure. Countries like China, India, and South Korea are investing in blockchain pilots for medical records, insurance verification, and drug traceability. Government-backed initiatives are promoting blockchain adoption in public health systems and medical research. Regional tech firms are collaborating with global players to develop scalable blockchain solutions tailored to local needs. The integration of blockchain with mobile health platforms is enabling broader access in rural and underserved areas.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, underpinned by strong R&D investment and early adoption of blockchain technologies. The U.S. and Canada are leading in blockchain-based clinical trials, patient identity management, and insurance automation. Regulatory agencies are actively exploring frameworks to support blockchain integration in electronic health records and reimbursement systems. Hospitals are deploying blockchain to enhance data interoperability and reduce administrative overhead. Venture capital funding and strategic partnerships are fueling innovation across startups and healthcare incumbents.

Key players in the market

Some of the key players profiled in the Blockchain in Healthcare Market include Guardtime, Healthereum, Avaneer Health, Coral Health, BurstIQ, Factom, Patientory, Gem Health, Medicalchain, Change Healthcare, Chronicled, Tierion, Embleema, Hashed Health, and Solve.Care.

Key Developments:

In June 2025, BurstIQ announced that it has joined the Amazon Web Services (AWS) Partner Network (APN). The APN is a global community of AWS Partners that leverage programs, expertise, and resources to build, market, and sell customer offerings. As an APN member, BurstIQ is also making its LifeGraph® platform available in AWS Marketplace, a digital catalog that helps you find, buy, deploy, and manage software, data products, and professional services from thousands of vendors.

In May 2024, Avaneer Health announced that it has launched Avaneer Coverage Direct™ for healthcare payers and providers. Avaneer Coverage Direct proactively delivers accurate, real-time health insurance coverage information on a secure, peer-to-peer network of payers and providers, lowering operations and systems costs while enhancing the patient/member experience.

Components Covered:

Platforms

Services

Solutions

Technologies Covered:

Powder

Tablets

Capsule

Gummies

Other Forms

Deployment Modes Covered:

Cloud-based

On-premises

Hybrid

Organization Sizes Covered:

Large Enterprises

Small & Medium Enterprises (SMEs)

Applications Covered:

Clinical Data Exchange & Interoperability

Drug Supply Chain Management

IoT & Remote Monitoring Integration

Claims Adjudication & Billing Automation

Credential Verification & Licensing

Personal Health Records (PHRs)

Clinical Trials & Consent Management

Other Applications

End Users Covered:

Healthcare Providers

Pharmaceutical & Med-Tech Manufacturers

Patients & Health-Data Brokers

Health Insurance Payers

Government & Public Health Agencies

Other End Users

Regions Covered:**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

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

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customization options:

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

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Application Analysis
- 3.8 End User Analysis
- 3.9 Emerging Markets
- 3.10 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL BLOCKCHAIN IN HEALTHCARE MARKET, BY COMPONENT

- 5.1 Introduction
- 5.2 Platforms
- 5.3 Services
- 5.4 Solutions

6 GLOBAL BLOCKCHAIN IN HEALTHCARE MARKET, BY TECHNOLOGY

- 6.1 Introduction
- 6.2 Private
- 6.3 Public
- 6.4 Consortium

7 GLOBAL BLOCKCHAIN IN HEALTHCARE MARKET, BY DEPLOYMENT MODE

- 7.1 Introduction
- 7.2 Cloud-based
- 7.3 On-premises
- 7.4 Hybrid

8 GLOBAL BLOCKCHAIN IN HEALTHCARE MARKET, BY ORGANIZATION SIZE

- 8.1 Introduction
- 8.2 Large Enterprises
- 8.3 Small & Medium Enterprises (SMEs)

9 GLOBAL BLOCKCHAIN IN HEALTHCARE MARKET, BY APPLICATION

- 9.1 Introduction
- 9.2 Clinical Data Exchange & Interoperability
- 9.3 Drug Supply Chain Management
- 9.4 IoT & Remote Monitoring Integration
- 9.5 Claims Adjudication & Billing Automation
- 9.6 Credential Verification & Licensing
- 9.7 Personal Health Records (PHRs)
- 9.8 Clinical Trials & Consent Management
- 9.9 Other Applications

10 GLOBAL BLOCKCHAIN IN HEALTHCARE MARKET, BY END USER

- 10.1 Introduction
- 10.2 Healthcare Providers
- 10.3 Pharmaceutical & Med-Tech Manufacturers
- 10.4 Patients & Health-Data Brokers
- 10.5 Health Insurance Payers
- 10.6 Government & Public Health Agencies
- 10.7 Other End Users

11 GLOBAL BLOCKCHAIN IN HEALTHCARE MARKET, BY GEOGRAPHY

- 11.1 Introduction
- 11.2 North America
 - 11.2.1 US
 - 11.2.2 Canada
 - 11.2.3 Mexico
- 11.3 Europe
 - 11.3.1 Germany
 - 11.3.2 UK
 - 11.3.3 Italy
 - 11.3.4 France
 - 11.3.5 Spain
 - 11.3.6 Rest of Europe
- 11.4 Asia Pacific
 - 11.4.1 Japan
 - 11.4.2 China
 - 11.4.3 India
 - 11.4.4 Australia
 - 11.4.5 New Zealand
 - 11.4.6 South Korea
 - 11.4.7 Rest of Asia Pacific
- 11.5 South America
 - 11.5.1 Argentina
 - 11.5.2 Brazil
 - 11.5.3 Chile
 - 11.5.4 Rest of South America
- 11.6 Middle East & Africa

- 11.6.1 Saudi Arabia
- 11.6.2 UAE
- 11.6.3 Qatar
- 11.6.4 South Africa
- 11.6.5 Rest of Middle East & Africa

12 KEY DEVELOPMENTS

- 12.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 12.2 Acquisitions & Mergers
- 12.3 New Product Launch
- 12.4 Expansions
- 12.5 Other Key Strategies

13 COMPANY PROFILING

- 13.1 Guardtime
- 13.2 Healthereum
- 13.3 Avaneer Health
- 13.4 Coral Health
- 13.5 BurstIQ
- 13.6 Factom
- 13.7 Patientory
- 13.8 Gem Health
- 13.9 Medicalchain
- 13.10 Change Healthcare
- 13.11 Chronicled
- 13.12 Tierion
- 13.13 Embleema
- 13.14 Hashed Health
- 13.15 Solve.Care

List Of Tables

LIST OF TABLES

Table 1 Global Blockchain in Healthcare Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Blockchain in Healthcare Market Outlook, By Component (2024-2032) (\$MN)

Table 3 Global Blockchain in Healthcare Market Outlook, By Platforms (2024-2032) (\$MN)

Table 4 Global Blockchain in Healthcare Market Outlook, By Services (2024-2032) (\$MN)

Table 5 Global Blockchain in Healthcare Market Outlook, By Solutions (2024-2032) (\$MN)

Table 6 Global Blockchain in Healthcare Market Outlook, By Technology (2024-2032) (\$MN)

Table 7 Global Blockchain in Healthcare Market Outlook, By Private (2024-2032) (\$MN)

Table 8 Global Blockchain in Healthcare Market Outlook, By Public (2024-2032) (\$MN)

Table 9 Global Blockchain in Healthcare Market Outlook, By Consortium (2024-2032) (\$MN)

Table 10 Global Blockchain in Healthcare Market Outlook, By Deployment Mode (2024-2032) (\$MN)

Table 11 Global Blockchain in Healthcare Market Outlook, By Cloud-based (2024-2032) (\$MN)

Table 12 Global Blockchain in Healthcare Market Outlook, By On-premises (2024-2032) (\$MN)

Table 13 Global Blockchain in Healthcare Market Outlook, By Hybrid (2024-2032) (\$MN)

Table 14 Global Blockchain in Healthcare Market Outlook, By Organization Size (2024-2032) (\$MN)

Table 15 Global Blockchain in Healthcare Market Outlook, By Large Enterprises (2024-2032) (\$MN)

Table 16 Global Blockchain in Healthcare Market Outlook, By Small & Medium Enterprises (SMEs) (2024-2032) (\$MN)

Table 17 Global Blockchain in Healthcare Market Outlook, By Application (2024-2032) (\$MN)

Table 18 Global Blockchain in Healthcare Market Outlook, By Clinical Data Exchange & Interoperability (2024-2032) (\$MN)

Table 19 Global Blockchain in Healthcare Market Outlook, By Drug Supply Chain Management (2024-2032) (\$MN)

Table 20 Global Blockchain in Healthcare Market Outlook, By IoT & Remote Monitoring Integration (2024-2032) (\$MN)

Table 21 Global Blockchain in Healthcare Market Outlook, By Claims Adjudication & Billing Automation (2024-2032) (\$MN)

Table 22 Global Blockchain in Healthcare Market Outlook, By Credential Verification & Licensing (2024-2032) (\$MN)

Table 23 Global Blockchain in Healthcare Market Outlook, By Personal Health Records (PHRs) (2024-2032) (\$MN)

Table 24 Global Blockchain in Healthcare Market Outlook, By Clinical Trials & Consent Management (2024-2032) (\$MN)

Table 25 Global Blockchain in Healthcare Market Outlook, By Other Applications (2024-2032) (\$MN)

Table 26 Global Blockchain in Healthcare Market Outlook, By End User (2024-2032) (\$MN)

Table 27 Global Blockchain in Healthcare Market Outlook, By Healthcare Providers (2024-2032) (\$MN)

Table 28 Global Blockchain in Healthcare Market Outlook, By Pharmaceutical & Med-Tech Manufacturers (2024-2032) (\$MN)

Table 29 Global Blockchain in Healthcare Market Outlook, By Patients & Health-Data Brokers (2024-2032) (\$MN)

Table 30 Global Blockchain in Healthcare Market Outlook, By Health Insurance Payers (2024-2032) (\$MN)

Table 31 Global Blockchain in Healthcare Market Outlook, By Government & Public Health Agencies (2024-2032) (\$MN)

Table 32 Global Blockchain in Healthcare Market Outlook, By Other End Users (2024-2032) (\$MN)

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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