

# Internet Of Things (IoT) And Blockchain Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (Hardware, Software), By Deployment Model (Cloud, On-Premise), By Application, By End-User

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## Abstracts

The Internet Of Things (IoT) And Blockchain Market is valued at USD 1.5 trillion in 2025 and is projected to grow at a CAGR of 40% to reach USD 31 trillion by 2034. The Internet of Things (IoT) and Blockchain Market is an emerging convergence of two transformative technologies aimed at enhancing data integrity, transparency, and automation across connected ecosystems. IoT generates massive volumes of sensor-driven data from devices, machinery, and infrastructure, while blockchain adds a layer of decentralized security and verifiability to that data. When combined, these technologies enable trusted, tamper-proof, and autonomous transactions between devices, users, and networks. Applications span across supply chain logistics, smart contracts, healthcare monitoring, predictive maintenance, energy distribution, and identity verification. IoT and blockchain integration addresses key challenges around data provenance, ownership, and cybersecurity—making it a powerful solution for industries that depend on real-time, reliable data sharing. As edge computing, 5G, and AI continue to scale, the value proposition of decentralized IoT frameworks is gaining momentum, particularly in sectors with high regulatory sensitivity and multi-stakeholder networks. The market for IoT and blockchain integration witnessed a surge in pilot projects and early deployments. Manufacturers used blockchain-ledgers to authenticate spare parts in industrial IoT environments, minimizing fraud and downtime. Smart agriculture platforms implemented blockchain to trace food supply chains from farm to table, improving safety and traceability. Energy providers began tokenizing surplus energy from IoT-monitored solar grids to enable peer-to-peer energy trading. Companies like IBM, Cisco, and VeChain enhanced their blockchain-IoT offerings with

improved scalability and interoperability through hybrid cloud models. Several governments, particularly in Europe and Asia-Pacific, funded decentralized IoT initiatives for smart city management—covering waste monitoring, environmental sensing, and traffic flow optimization. Additionally, zero-knowledge proofs and sidechain solutions gained interest as a means to process IoT data at scale while maintaining user privacy and blockchain performance. The IoT and blockchain market is expected to mature with broader standardization, cross-platform compatibility, and real-world scalability. Edge devices will run lightweight blockchain clients, enabling peer-to-peer data validation and micropayment settlements without centralized intermediaries. AI will enhance blockchain analytics, helping predict system failures and trigger smart contract-based automated responses. Tokenization of machine-to-machine transactions—such as vehicle-to-grid payments or equipment leasing—will streamline monetization in industrial IoT. Emerging ecosystems like decentralized autonomous organizations (DAOs) will coordinate IoT devices for shared services, maintenance, and ownership models. Regulatory bodies will move toward clearer frameworks governing decentralized IoT networks, particularly regarding data sovereignty and liability. As businesses demand greater accountability in multi-party systems, the fusion of IoT and blockchain will enable secure, efficient, and autonomous digital infrastructure with minimal human intervention and maximum transparency.

## Key Insights Internet Of Things (IoT) And Blockchain Market

OG Analysis notes a growing use of blockchain for IoT data authentication in supply chains, ensuring the integrity and traceability of products and raw materials across complex, multi-node ecosystems.

Integration of smart contracts with IoT devices is trending, automating machine-level transactions and service triggers such as predictive maintenance, usage-based billing, and access control, says OG Analysis.

According to OG Analysis, decentralized identity (DID) systems are gaining traction in healthcare and industrial IoT, allowing secure, user-controlled access to connected devices and sensitive data streams.

OG Analysis observes rising deployment of tokenized microtransactions between devices—such as electric vehicle charging or energy sharing—enabled by blockchain and real-time IoT telemetry.

Hybrid blockchain models combining public and private chains are trending to

balance transparency, scalability, and confidentiality in IoT networks, particularly for enterprise and government use cases.

OG Analysis identifies increasing security concerns around IoT as a primary driver, with blockchain offering decentralized, immutable logs that reduce tampering risks and single-point-of-failure vulnerabilities.

The need for trusted automation in supply chain, manufacturing, and smart cities is fueling adoption of blockchain-enabled IoT for real-time, rule-based interactions and data sharing, says OG Analysis.

OG Analysis notes that advancements in edge computing and 5G connectivity are enabling real-time, decentralized IoT applications that benefit from blockchain's distributed processing and transparency.

Enterprise push for operational visibility and compliance across multi-party networks is driving investment in combined IoT-blockchain platforms that ensure accountability and reduce manual reconciliation, according to OG Analysis.

OG Analysis highlights scalability as a key issue, with traditional blockchain protocols struggling to handle the massive volume and velocity of IoT data, necessitating lightweight, scalable architectures.

According to OG Analysis, interoperability and integration challenges between legacy systems, IoT devices, and blockchain platforms can hinder adoption, requiring substantial effort in middleware and protocol development.

## Internet Of Things (Iot) And Blockchain Market Segmentation

### By Type

Hardware

Software

### By Deployment Model

Cloud

On-Premise

#### By Application

Smart Contract

Data Security

Data Sharing Or Communication

Asset Tracking And Management

#### By End-User

Retail

Healthcare

Manufacturing

Banking

Financial Services

And Insurance (BFSI)

#### Key Companies Analysed

Amazon.com Inc.

Google LLC

Microsoft Corporation

Verizon Communications Inc.

AT&T Inc.

Dell Inc.

Huawei Technologies Co. Ltd.

Siemens AG

Intel Corporation

Accenture plc

International Business Machines Corporation

Cisco Systems Inc.

Oracle Corporation

Mitsubishi Electric Corporation

Honeywell International Inc.

SAP SE

Fujitsu

The Hewlett Packard Enterprise Company

Ericsson

NEC Corporation

Cognizant

Infosys Limited

HCL Technologies Limited

Wipro Limited

KrypC Technologies

## Internet Of Things (Iot) And Blockchain Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Internet Of Things (Iot) And Blockchain Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Internet Of Things (Iot) And Blockchain market data and outlook to 2034

United States

Canada

Mexico

Europe — Internet Of Things (Iot) And Blockchain market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Internet Of Things (Iot) And Blockchain market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Internet Of Things (Iot) And Blockchain market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Internet Of Things (Iot) And Blockchain market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

## Research Methodology

This study combines primary inputs from industry experts across the Internet Of Things (Iot) And Blockchain value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Internet Of Things (IoT) And Blockchain industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Internet Of Things (IoT) And Blockchain Market Report

Global Internet Of Things (IoT) And Blockchain market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Internet Of Things (IoT) And Blockchain trade, costs, and supply chains

Internet Of Things (IoT) And Blockchain market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Internet Of Things (IoT) And Blockchain market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Internet Of Things (IoT) And Blockchain market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Internet Of Things (Iot) And Blockchain supply chain analysis

Internet Of Things (Iot) And Blockchain trade analysis, Internet Of Things (Iot) And Blockchain market price analysis, and Internet Of Things (Iot) And Blockchain supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Internet Of Things (Iot) And Blockchain market news and developments

### Additional Support

With the purchase of this report, you will receive

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7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

## Contents

### 1. TABLE OF CONTENTS

- 1.1 List of Tables
- 1.2 List of Figures

### 2. GLOBAL INTERNET OF THINGS (IOT) AND BLOCKCHAIN MARKET SUMMARY, 2025

- 2.1 Internet Of Things (Iot) And Blockchain Industry Overview
  - 2.1.1 Global Internet Of Things (Iot) And Blockchain Market Revenues (In US\$ billion)
- 2.2 Internet Of Things (Iot) And Blockchain Market Scope
- 2.3 Research Methodology

### 3. INTERNET OF THINGS (IOT) AND BLOCKCHAIN MARKET INSIGHTS, 2024-2034

- 3.1 Internet Of Things (Iot) And Blockchain Market Drivers
- 3.2 Internet Of Things (Iot) And Blockchain Market Restraints
- 3.3 Internet Of Things (Iot) And Blockchain Market Opportunities
- 3.4 Internet Of Things (Iot) And Blockchain Market Challenges
- 3.5 Tariff Impact on Global Internet Of Things (Iot) And Blockchain Supply Chain Patterns

### 4. INTERNET OF THINGS (IOT) AND BLOCKCHAIN MARKET ANALYTICS

- 4.1 Internet Of Things (Iot) And Blockchain Market Size and Share, Key Products, 2025 Vs 2034
- 4.2 Internet Of Things (Iot) And Blockchain Market Size and Share, Dominant Applications, 2025 Vs 2034
- 4.3 Internet Of Things (Iot) And Blockchain Market Size and Share, Leading End Uses, 2025 Vs 2034
- 4.4 Internet Of Things (Iot) And Blockchain Market Size and Share, High Growth Countries, 2025 Vs 2034
- 4.5 Five Forces Analysis for Global Internet Of Things (Iot) And Blockchain Market
  - 4.5.1 Internet Of Things (Iot) And Blockchain Industry Attractiveness Index, 2025
  - 4.5.2 Internet Of Things (Iot) And Blockchain Supplier Intelligence
  - 4.5.3 Internet Of Things (Iot) And Blockchain Buyer Intelligence
  - 4.5.4 Internet Of Things (Iot) And Blockchain Competition Intelligence

4.5.5 Internet Of Things (Iot) And Blockchain Product Alternatives and Substitutes Intelligence

4.5.6 Internet Of Things (Iot) And Blockchain Market Entry Intelligence

## **5. GLOBAL INTERNET OF THINGS (IOT) AND BLOCKCHAIN MARKET STATISTICS – INDUSTRY REVENUE, MARKET SHARE, GROWTH TRENDS AND FORECAST BY SEGMENTS, TO 2034**

5.1 World Internet Of Things (Iot) And Blockchain Market Size, Potential and Growth Outlook, 2024- 2034 (\$ billion)

5.1 Global Internet Of Things (Iot) And Blockchain Sales Outlook and CAGR Growth By Type, 2024- 2034 (\$ billion)

5.2 Global Internet Of Things (Iot) And Blockchain Sales Outlook and CAGR Growth By Deployment Model, 2024- 2034 (\$ billion)

5.3 Global Internet Of Things (Iot) And Blockchain Sales Outlook and CAGR Growth By Application, 2024- 2034 (\$ billion)

5.4 Global Internet Of Things (Iot) And Blockchain Sales Outlook and CAGR Growth By End-User, 2024- 2034 (\$ billion)

5.5 Global Internet Of Things (Iot) And Blockchain Market Sales Outlook and Growth by Region, 2024- 2034 (\$ billion)

## **6. ASIA PACIFIC INTERNET OF THINGS (IOT) AND BLOCKCHAIN INDUSTRY STATISTICS – MARKET SIZE, SHARE, COMPETITION AND OUTLOOK**

6.1 Asia Pacific Internet Of Things (Iot) And Blockchain Market Insights, 2025

6.2 Asia Pacific Internet Of Things (Iot) And Blockchain Market Revenue Forecast By Type, 2024- 2034 (USD billion)

6.3 Asia Pacific Internet Of Things (Iot) And Blockchain Market Revenue Forecast By Deployment Model, 2024- 2034 (USD billion)

6.4 Asia Pacific Internet Of Things (Iot) And Blockchain Market Revenue Forecast By Application, 2024- 2034 (USD billion)

6.5 Asia Pacific Internet Of Things (Iot) And Blockchain Market Revenue Forecast By End-User, 2024- 2034 (USD billion)

6.6 Asia Pacific Internet Of Things (Iot) And Blockchain Market Revenue Forecast by Country, 2024- 2034 (USD billion)

6.6.1 China Internet Of Things (Iot) And Blockchain Market Size, Opportunities, Growth 2024- 2034

6.6.2 India Internet Of Things (Iot) And Blockchain Market Size, Opportunities, Growth 2024- 2034

6.6.3 Japan Internet Of Things (Iot) And Blockchain Market Size, Opportunities, Growth 2024- 2034

6.6.4 Australia Internet Of Things (Iot) And Blockchain Market Size, Opportunities, Growth 2024- 2034

## **7. EUROPE INTERNET OF THINGS (IOT) AND BLOCKCHAIN MARKET DATA, PENETRATION, AND BUSINESS PROSPECTS TO 2034**

7.1 Europe Internet Of Things (Iot) And Blockchain Market Key Findings, 2025

7.2 Europe Internet Of Things (Iot) And Blockchain Market Size and Percentage Breakdown By Type, 2024- 2034 (USD billion)

7.3 Europe Internet Of Things (Iot) And Blockchain Market Size and Percentage Breakdown By Deployment Model, 2024- 2034 (USD billion)

7.4 Europe Internet Of Things (Iot) And Blockchain Market Size and Percentage Breakdown By Application, 2024- 2034 (USD billion)

7.5 Europe Internet Of Things (Iot) And Blockchain Market Size and Percentage Breakdown By End-User, 2024- 2034 (USD billion)

7.6 Europe Internet Of Things (Iot) And Blockchain Market Size and Percentage Breakdown by Country, 2024- 2034 (USD billion)

7.6.1 Germany Internet Of Things (Iot) And Blockchain Market Size, Trends, Growth Outlook to 2034

7.6.2 United Kingdom Internet Of Things (Iot) And Blockchain Market Size, Trends, Growth Outlook to 2034

7.6.2 France Internet Of Things (Iot) And Blockchain Market Size, Trends, Growth Outlook to 2034

7.6.2 Italy Internet Of Things (Iot) And Blockchain Market Size, Trends, Growth Outlook to 2034

7.6.2 Spain Internet Of Things (Iot) And Blockchain Market Size, Trends, Growth Outlook to 2034

## **8. NORTH AMERICA INTERNET OF THINGS (IOT) AND BLOCKCHAIN MARKET SIZE, GROWTH TRENDS, AND FUTURE PROSPECTS TO 2034**

8.1 North America Snapshot, 2025

8.2 North America Internet Of Things (Iot) And Blockchain Market Analysis and Outlook By Type, 2024- 2034 (\$ billion)

8.3 North America Internet Of Things (Iot) And Blockchain Market Analysis and Outlook By Deployment Model, 2024- 2034 (\$ billion)

8.4 North America Internet Of Things (Iot) And Blockchain Market Analysis and Outlook

By Application, 2024- 2034 (\$ billion)

8.5 North America Internet Of Things (Iot) And Blockchain Market Analysis and Outlook By End-User, 2024- 2034 (\$ billion)

8.6 North America Internet Of Things (Iot) And Blockchain Market Analysis and Outlook by Country, 2024- 2034 (\$ billion)

8.6.1 United States Internet Of Things (Iot) And Blockchain Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.6.1 Canada Internet Of Things (Iot) And Blockchain Market Size, Share, Growth Trends and Forecast, 2024- 2034

8.6.1 Mexico Internet Of Things (Iot) And Blockchain Market Size, Share, Growth Trends and Forecast, 2024- 2034

## **9. SOUTH AND CENTRAL AMERICA INTERNET OF THINGS (IOT) AND BLOCKCHAIN MARKET DRIVERS, CHALLENGES, AND FUTURE PROSPECTS**

9.1 Latin America Internet Of Things (Iot) And Blockchain Market Data, 2025

9.2 Latin America Internet Of Things (Iot) And Blockchain Market Future By Type, 2024- 2034 (\$ billion)

9.3 Latin America Internet Of Things (Iot) And Blockchain Market Future By Deployment Model, 2024- 2034 (\$ billion)

9.4 Latin America Internet Of Things (Iot) And Blockchain Market Future By Application, 2024- 2034 (\$ billion)

9.5 Latin America Internet Of Things (Iot) And Blockchain Market Future By End-User, 2024- 2034 (\$ billion)

9.6 Latin America Internet Of Things (Iot) And Blockchain Market Future by Country, 2024- 2034 (\$ billion)

9.6.1 Brazil Internet Of Things (Iot) And Blockchain Market Size, Share and Opportunities to 2034

9.6.2 Argentina Internet Of Things (Iot) And Blockchain Market Size, Share and Opportunities to 2034

## **10. MIDDLE EAST AFRICA INTERNET OF THINGS (IOT) AND BLOCKCHAIN MARKET OUTLOOK AND GROWTH PROSPECTS**

10.1 Middle East Africa Overview, 2025

10.2 Middle East Africa Internet Of Things (Iot) And Blockchain Market Statistics By Type, 2024- 2034 (USD billion)

10.3 Middle East Africa Internet Of Things (Iot) And Blockchain Market Statistics By Deployment Model, 2024- 2034 (USD billion)

10.4 Middle East Africa Internet Of Things (Iot) And Blockchain Market Statistics By Application, 2024- 2034 (USD billion)

10.5 Middle East Africa Internet Of Things (Iot) And Blockchain Market Statistics By Application, 2024- 2034 (USD billion)

10.6 Middle East Africa Internet Of Things (Iot) And Blockchain Market Statistics by Country, 2024- 2034 (USD billion)

10.6.1 Middle East Internet Of Things (Iot) And Blockchain Market Value, Trends, Growth Forecasts to 2034

10.6.2 Africa Internet Of Things (Iot) And Blockchain Market Value, Trends, Growth Forecasts to 2034

## **11. INTERNET OF THINGS (IOT) AND BLOCKCHAIN MARKET STRUCTURE AND COMPETITIVE LANDSCAPE**

11.1 Key Companies in Internet Of Things (Iot) And Blockchain Industry

11.2 Internet Of Things (Iot) And Blockchain Business Overview

11.3 Internet Of Things (Iot) And Blockchain Product Portfolio Analysis

11.4 Financial Analysis

11.5 SWOT Analysis

## **12 APPENDIX**

12.1 Global Internet Of Things (Iot) And Blockchain Market Volume (Tons)

12.1 Global Internet Of Things (Iot) And Blockchain Trade and Price Analysis

12.2 Internet Of Things (Iot) And Blockchain Parent Market and Other Relevant Analysis

12.3 Publisher Expertise

12.2 Internet Of Things (Iot) And Blockchain Industry Report Sources and Methodology

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