

Global Cloud-based Cold Chain Management Market Size Study, by Component (Hardware, Software), by Application (Food & Beverages, Pharmaceuticals), and Regional Forecasts 2022-2032

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Abstracts

The Global Cloud-based Cold Chain Management Market is valued at approximately USD 11,127.4 million in 2023 and is projected to grow at an impressive compound annual growth rate (CAGR) of 26.1% over the forecast period 2024-2032. As global industries navigate the intricacies of maintaining product integrity during storage and transit, the demand for cloud-based cold chain solutions has surged. This innovative technology integrates advanced data monitoring, analytics, and connectivity to ensure seamless cold chain operations, reducing spoilage and improving efficiency across food and pharmaceutical sectors. The proliferation of IoT-enabled devices, combined with advancements in cloud technology, has paved the way for transformative solutions that ensure compliance with regulatory standards while optimizing costs.

Amid a burgeoning global population and rising consumer awareness regarding food safety, the cloud-based cold chain management market continues to expand. Additionally, the increasing demand for temperature-sensitive pharmaceutical products such as vaccines and biologics has underscored the critical need for robust cold chain solutions. For instance, the logistical challenges posed by the global distribution of COVID-19 vaccines highlighted the significance of real-time monitoring and predictive analytics in cold chain management. Furthermore, governmental policies and the adoption of sustainable practices are fostering a shift toward digital transformation in the cold chain industry. However, challenges like high implementation costs and cybersecurity risks could hinder market growth to some extent during the forecast period.

Technological innovations have been instrumental in shaping the competitive landscape of this market. Cloud-based solutions equipped with AI and machine learning capabilities enable real-time temperature monitoring, predictive maintenance, and enhanced decision-making. These advancements not only reduce operational disruptions but also enhance the traceability of cold chain operations, ensuring compliance with stringent regulatory standards. Furthermore, the integration of blockchain technology has introduced greater transparency and security into the cold chain ecosystem, mitigating risks associated with data tampering or inaccuracies.

Regionally, North America dominated the global cloud-based cold chain management market in 2023, driven by its advanced technological infrastructure, early adoption of IoT and AI, and a robust pharmaceutical industry. Europe also holds a substantial share, supported by stringent regulations on food and drug safety and investments in digital cold chain technologies. The Asia-Pacific region, however, is anticipated to witness the fastest growth during the forecast period, fueled by rapid industrialization, an expanding pharmaceutical market, and increasing investments in cold storage infrastructure in countries like China and India.

Major market players included in this report are:

3M Company

Emerson Electric Co.

Sensitech, Inc. (a Carrier Company)

Lineage Logistics Holdings, LLC

ORBCOMM Inc.

Thermo King Corporation

Amazon Web Services, Inc.

Controlant

SmartSense by Digi

Zest Labs, Inc.

Cloudleaf, Inc.

Cryoport, Inc.

IBM Corporation

Infratab, Inc.

Rotronic AG

The detailed segments and sub-segment of the market are explained below:

By Component:

Hardware

Software

By Application:

Food & Beverages

Pharmaceuticals

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific:

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

Rest of Middle East & Africa

Years considered for the study are as follows:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL CLOUD-BASED COLD CHAIN MANAGEMENT MARKET EXECUTIVE SUMMARY

- 1.1. Global Cloud-based Cold Chain Management Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Component
 - 1.3.2. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL CLOUD-BASED COLD CHAIN MANAGEMENT MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL CLOUD-BASED COLD CHAIN MANAGEMENT MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Increased Demand for Temperature-sensitive Products
- 3.1.2. Advancements in Cloud and IoT Technologies
- 3.1.3. Governmental Policies and Sustainable Practices

3.2. Market Challenges

- 3.2.1. High Implementation Costs
- 3.2.2. Cybersecurity Risks

3.3. Market Opportunities

- 3.3.1. Integration with AI and Machine Learning
- 3.3.2. Expansion in Emerging Markets
- 3.3.3. Adoption of Blockchain for Enhanced Security

CHAPTER 4. GLOBAL CLOUD-BASED COLD CHAIN MANAGEMENT MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top Investment Opportunities

4.4. Top Winning Strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL CLOUD-BASED COLD CHAIN MANAGEMENT MARKET SIZE & FORECASTS BY COMPONENT 2022-2032

5.1. Segment Dashboard

5.2. Global Cloud-based Cold Chain Management Market: Component Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

5.2.1. Hardware

5.2.2. Software

CHAPTER 6. GLOBAL CLOUD-BASED COLD CHAIN MANAGEMENT MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

6.1. Segment Dashboard

6.2. Global Cloud-based Cold Chain Management Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)

6.2.1. Food & Beverages

6.2.2. Pharmaceuticals

CHAPTER 7. GLOBAL CLOUD-BASED COLD CHAIN MANAGEMENT MARKET SIZE & FORECASTS BY REGION 2022-2032

7.1. North America Cloud-based Cold Chain Management Market

7.1.1. U.S. Cloud-based Cold Chain Management Market

7.1.1.1. Hardware Breakdown Size & Forecasts, 2022-2032

7.1.1.2. Software Breakdown Size & Forecasts, 2022-2032

7.1.2. Canada Cloud-based Cold Chain Management Market

7.2. Europe Cloud-based Cold Chain Management Market

7.2.1. U.K. Cloud-based Cold Chain Management Market

7.2.2. Germany Cloud-based Cold Chain Management Market

7.2.3. France Cloud-based Cold Chain Management Market

7.2.4. Spain Cloud-based Cold Chain Management Market

7.2.5. Italy Cloud-based Cold Chain Management Market

7.2.6. Rest of Europe Cloud-based Cold Chain Management Market

7.3. Asia-Pacific Cloud-based Cold Chain Management Market

7.3.1. China Cloud-based Cold Chain Management Market

7.3.2. India Cloud-based Cold Chain Management Market

7.3.3. Japan Cloud-based Cold Chain Management Market

7.3.4. Australia Cloud-based Cold Chain Management Market

7.3.5. South Korea Cloud-based Cold Chain Management Market

7.3.6. Rest of Asia Pacific Cloud-based Cold Chain Management Market

7.4. Latin America Cloud-based Cold Chain Management Market

- 7.4.1. Brazil Cloud-based Cold Chain Management Market
- 7.4.2. Mexico Cloud-based Cold Chain Management Market
- 7.4.3. Rest of Latin America Cloud-based Cold Chain Management Market
- 7.5. Middle East & Africa Cloud-based Cold Chain Management Market
 - 7.5.1. Saudi Arabia Cloud-based Cold Chain Management Market
 - 7.5.2. South Africa Cloud-based Cold Chain Management Market
 - 7.5.3. Rest of Middle East & Africa Cloud-based Cold Chain Management Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Amazon Web Services, Inc.
 - 8.1.2. IBM Corporation
 - 8.1.3. 3M Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Amazon Web Services, Inc.
 - 8.3.1.1. Key Information
 - 8.3.1.2. Overview
 - 8.3.1.3. Financial (Subject to Data Availability)
 - 8.3.1.4. Product Summary
 - 8.3.1.5. Market Strategies
 - 8.3.2. Emerson Electric Co.
 - 8.3.3. Sensitech, Inc. (a Carrier Company)
 - 8.3.4. Lineage Logistics Holdings, LLC
 - 8.3.5. ORBCOMM Inc.
 - 8.3.6. Thermo King Corporation
 - 8.3.7. Controlant
 - 8.3.8. SmartSense by Digi
 - 8.3.9. Zest Labs, Inc.
 - 8.3.10. Cloudleaf, Inc.
 - 8.3.11. Cryoport, Inc.
 - 8.3.12. Infratab, Inc.
 - 8.3.13. Rotronic AG

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining

- 9.1.2. Analysis
- 9.1.3. Market Estimation
- 9.1.4. Validation
- 9.1.5. Publishing
- 9.2. Research Attributes

List Of Tables

LIST OF TABLES

- TABLE 1. Global Cloud-based Cold Chain Management Market, Report Scope
- TABLE 2. Global Cloud-based Cold Chain Management Market Estimates & Forecasts by Region 2022-2032 (USD Million/Billion)
- TABLE 3. Global Cloud-based Cold Chain Management Market Estimates & Forecasts by Component 2022-2032 (USD Million/Billion)
- TABLE 4. Global Cloud-based Cold Chain Management Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)
- TABLE 5. Global Cloud-based Cold Chain Management Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 6. Global Cloud-based Cold Chain Management Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 7. Global Cloud-based Cold Chain Management Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 8. Global Cloud-based Cold Chain Management Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 9. Global Cloud-based Cold Chain Management Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 10. Global Cloud-based Cold Chain Management Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 11. Global Cloud-based Cold Chain Management Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 12. Global Cloud-based Cold Chain Management Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 13. Global Cloud-based Cold Chain Management Market by Segment, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 14. Global Cloud-based Cold Chain Management Market by Region, Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 15. U.S. Cloud-based Cold Chain Management Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)
- TABLE 16. U.S. Cloud-based Cold Chain Management Market Estimates & Forecasts by Component 2022-2032 (USD Million/Billion)
- TABLE 17. U.S. Cloud-based Cold Chain Management Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)
- TABLE 18. Canada Cloud-based Cold Chain Management Market Estimates & Forecasts, 2022-2032 (USD Million/Billion)

TABLE 19. Canada Cloud-based Cold Chain Management Market Estimates & Forecasts by Component 2022-2032 (USD Million/Billion)

TABLE 20. Canada Cloud-based Cold Chain Management Market Estimates & Forecasts by Application 2022-2032 (USD Million/Billion)

...

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

FIG 1. Global Cloud-based Cold Chain Management Market, Research Methodology

FIG 2. Global Cloud-based Cold Chain Management Market, Market Estimation Techniques

FIG 3. Global Market Size Estimates & Forecast Methods

FIG 4. Global Cloud-based Cold Chain Management Market, Key Trends 2023

FIG 5. Global Cloud-based Cold Chain Management Market, Growth Prospects 2022-2032

FIG 6. Global Cloud-based Cold Chain Management Market, Porter's 5 Force Model

FIG 7. Global Cloud-based Cold Chain Management Market, PESTEL Analysis

FIG 8. Global Cloud-based Cold Chain Management Market, Value Chain Analysis

FIG 9. Global Cloud-based Cold Chain Management Market by Component, 2022 & 2032 (USD Million/Billion)

FIG 10. Global Cloud-based Cold Chain Management Market by Application, 2022 & 2032 (USD Million/Billion)

FIG 11. Global Cloud-based Cold Chain Management Market by Region, 2022 & 2032 (USD Million/Billion)

FIG 12. Global Cloud-based Cold Chain Management Market by Segment, 2022 & 2032 (USD Million/Billion)

FIG 13. Global Cloud-based Cold Chain Management Market by Segment, 2022 & 2032 (USD Million/Billion)

FIG 14. Global Cloud-based Cold Chain Management Market, Regional Snapshot 2022 & 2032

FIG 15. North America Cloud-based Cold Chain Management Market 2022 & 2032 (USD Million/Billion)

FIG 16. Europe Cloud-based Cold Chain Management Market 2022 & 2032 (USD Million/Billion)

FIG 17. Asia-Pacific Cloud-based Cold Chain Management Market 2022 & 2032 (USD Million/Billion)

FIG 18. Latin America Cloud-based Cold Chain Management Market 2022 & 2032 (USD Million/Billion)

FIG 19. Middle East & Africa Cloud-based Cold Chain Management Market 2022 & 2032 (USD Million/Billion)

FIG 20. Global Cloud-based Cold Chain Management Market, Company Market Share Analysis (2023)

...

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

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