

Global Real-time Monitoring Solutions for Cold Chain Market Size Study, by Component (Hardware, Software), by Application (Food & Beverages, Pharmaceuticals), and Regional Forecasts 2022-2032

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Abstracts

The Global Real-time Monitoring Solutions for Cold Chain Market was valued at approximately USD 12,427.8 million in 2023 and is projected to experience exponential growth at a CAGR of 23.1% during the forecast period from 2024 to 2032. With the increasing demand for temperature-sensitive logistics solutions, industries such as pharmaceuticals and food & beverages are integrating real-time tracking and monitoring technologies to ensure product integrity throughout the supply chain. The reliance on loT-enabled sensors, cloud-based analytics, and Al-driven automation is transforming traditional cold chain logistics into a highly digitized and efficient ecosystem.

The surging demand for highly regulated temperature-sensitive pharmaceuticals, vaccines, and biologics has driven the widespread adoption of real-time cold chain monitoring systems in the healthcare sector. Similarly, in the food and beverage industry, stringent regulatory standards and consumer-driven quality concerns have made real-time data tracking and automated alerts essential for minimizing wastage and ensuring compliance. Companies are deploying RFID tags, GPS-based tracking, Alpowered analytics, and blockchain solutions to maintain an unbroken cold chain, enabling precise monitoring of temperature, humidity, and shipment location.

With the increasing complexity of global supply chains, businesses are shifting toward smart cold chain solutions that integrate predictive analytics and machine learning algorithms to prevent potential disruptions and improve efficiency. As companies invest in cloud-based cold chain management platforms, the ability to access real-time insights across distributed networks enhances supply chain resilience. However, high



Orbcomm Inc.

Elpro-Buchs AG

implementation costs, data security concerns, and integration complexities pose challenges to market expansion.

North America holds a dominant position in the global real-time monitoring solutions for the cold chain market, driven by advanced logistics infrastructure, government regulations on food and drug safety, and high investments in IoT-enabled tracking technologies. Meanwhile, Asia-Pacific is expected to experience the fastest growth, fueled by booming e-commerce logistics, increasing pharmaceutical production, and growing demand for perishable food distribution in countries like China, India, and Japan. In Europe, stringent Good Distribution Practices (GDP) and sustainability initiatives are encouraging the adoption of Al-powered and eco-friendly cold chain solutions across industries.

Major market players included in this report are:

Sensitech Inc.

Berlinger & Co. AG

Controlant

Monnit Corporation

Tive, Inc.

Temptime Corporation

Savi Technology, Inc.

DeltaTrak, Inc.

FreshSurety Corporation

Carrier Global Corporation



Emerson Electric Co.		
Zest Labs, Inc.		
PakSense, Inc.		
The detailed segments and sub-segments 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 (ROE)
Asia Pacific	
	China
	India
	Japan
	Australia
	South Korea
	Rest of Asia Pacific (RoAPAC)
Latin America	
	Brazil
	Mexico
Middle East & Africa	
	Saudi Arabia
	South Africa
	Rest of Middle East & Africa (RoMEA)



Years considered for the study:

Historical Year: 2022

Base Year: 2023

Forecast Period: 2024 to 2032

Key Takeaways:

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

Annual revenue insights at both global and regional levels.

Detailed competitive landscape with key market players and business strategies.

Geographical analysis with country-specific insights.

Recommendations for stakeholders on future market trends and opportunities.

Comprehensive analysis of demand-side and supply-side market dynamics.



Contents

CHAPTER 1. GLOBAL REAL-TIME MONITORING SOLUTIONS FOR COLD CHAIN MARKET EXECUTIVE SUMMARY

- 1.1. Global Real-time Monitoring Solutions for Cold Chain Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Component
 - 1.3.1.1. Hardware
 - 1.3.1.2. Software
 - 1.3.2. By Application
 - 1.3.2.1. Food & Beverages
 - 1.3.2.2. Pharmaceuticals
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL REAL-TIME MONITORING SOLUTIONS FOR COLD CHAIN 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 REAL-TIME MONITORING SOLUTIONS FOR COLD CHAIN MARKET DYNAMICS

- 3.1. Market Drivers
 - 3.1.1. Increasing Demand for Temperature-sensitive Logistics Solutions
- 3.1.2. Advancements in IoT-enabled Sensors, Cloud-based Analytics, and Al-driven Automation
 - 3.1.3. Integration of Predictive Analytics and Machine Learning Algorithms
- 3.2. Market Challenges
 - 3.2.1. High Implementation Costs
 - 3.2.2. Data Security Concerns and Integration Complexities
- 3.3. Market Opportunities
 - 3.3.1. Expansion in Healthcare and Industrial Automation
 - 3.3.2. Growth in Al-powered and Eco-friendly Cold Chain Solutions
 - 3.3.3. Innovations in Blockchain-based Monitoring Systems

CHAPTER 4. GLOBAL REAL-TIME MONITORING SOLUTIONS FOR COLD CHAIN 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 REAL-TIME MONITORING SOLUTIONS FOR COLD CHAIN MARKET SIZE & FORECASTS BY COMPONENT 2022-2032

- 5.1. Segment Dashboard
- 5.2. Global Real-time Monitoring Solutions for Cold Chain Market: Component Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
 - 5.2.1. Hardware
 - 5.2.2. Software

CHAPTER 6. GLOBAL REAL-TIME MONITORING SOLUTIONS FOR COLD CHAIN MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

- 6.1. Segment Dashboard
- 6.2. Global Real-time Monitoring Solutions for Cold Chain Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Million/Billion)
 - 6.2.1. Food & Beverages
 - 6.2.2. Pharmaceuticals

CHAPTER 7. GLOBAL REAL-TIME MONITORING SOLUTIONS FOR COLD CHAIN MARKET SIZE & FORECASTS BY REGION 2022-2032

- 7.1. North America Real-time Monitoring Solutions for Cold Chain Market
- 7.1.1. U.S. Real-time Monitoring Solutions for Cold Chain Market
 - 7.1.1.1. Component Breakdown Size & Forecasts, 2022-2032
 - 7.1.1.2. Application Breakdown Size & Forecasts, 2022-2032
- 7.1.2. Canada Real-time Monitoring Solutions for Cold Chain Market
- 7.2. Europe Real-time Monitoring Solutions for Cold Chain Market
 - 7.2.1. UK Real-time Monitoring Solutions for Cold Chain Market
 - 7.2.2. Germany Real-time Monitoring Solutions for Cold Chain Market
 - 7.2.3. France Real-time Monitoring Solutions for Cold Chain Market
 - 7.2.4. Spain Real-time Monitoring Solutions for Cold Chain Market
 - 7.2.5. Italy Real-time Monitoring Solutions for Cold Chain Market
 - 7.2.6. Rest of Europe Real-time Monitoring Solutions for Cold Chain Market
- 7.3. Asia-Pacific Real-time Monitoring Solutions for Cold Chain Market
- 7.3.1. China Real-time Monitoring Solutions for Cold Chain Market



- 7.3.2. India Real-time Monitoring Solutions for Cold Chain Market
- 7.3.3. Japan Real-time Monitoring Solutions for Cold Chain Market
- 7.3.4. Australia Real-time Monitoring Solutions for Cold Chain Market
- 7.3.5. South Korea Real-time Monitoring Solutions for Cold Chain Market
- 7.3.6. Rest of Asia Pacific Real-time Monitoring Solutions for Cold Chain Market
- 7.4. Latin America Real-time Monitoring Solutions for Cold Chain Market
 - 7.4.1. Brazil Real-time Monitoring Solutions for Cold Chain Market
 - 7.4.2. Mexico Real-time Monitoring Solutions for Cold Chain Market
 - 7.4.3. Rest of Latin America Real-time Monitoring Solutions for Cold Chain Market
- 7.5. Middle East & Africa Real-time Monitoring Solutions for Cold Chain Market
 - 7.5.1. Saudi Arabia Real-time Monitoring Solutions for Cold Chain Market
 - 7.5.2. South Africa Real-time Monitoring Solutions for Cold Chain Market
- 7.5.3. Rest of Middle East & Africa Real-time Monitoring Solutions for Cold Chain Market

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Key Company SWOT Analysis
 - 8.1.1. Sensitech Inc.
 - 8.1.2. Berlinger & Co. AG
 - 8.1.3. Controlant
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Sensitech 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. Berlinger & Co. AG
 - 8.3.3. Controlant
 - 8.3.4. Monnit Corporation
 - 8.3.5. Tive, Inc.
 - 8.3.6. Temptime Corporation
 - 8.3.7. Savi Technology, Inc.
 - 8.3.8. DeltaTrak, Inc.
 - 8.3.9. FreshSurety Corporation
 - 8.3.10. Carrier Global Corporation
 - 8.3.11. Orbcomm Inc.



- 8.3.12. Elpro-Buchs AG
- 8.3.13. Emerson Electric Co.
- 8.3.14. Zest Labs, Inc.
- 8.3.15. PakSense, Inc.

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



TABLE 19. Canada Real-time Monitoring Solutions for Cold Chain Market Estimates & Forecasts by Segment 2022-2032 (USD Million/Billion)

TABLE 20. Canada Real-time Monitoring Solutions for Cold Chain Market Estimates & Forecasts by Segment 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 Real-time Monitoring Solutions for Cold Chain Market, Research Methodology
- FIG 2. Global Real-time Monitoring Solutions for Cold Chain Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods
- FIG 4. Global Real-time Monitoring Solutions for Cold Chain Market, Key Trends 2023
- FIG 5. Global Real-time Monitoring Solutions for Cold Chain Market, Growth Prospects 2024-2032
- FIG 6. Global Real-time Monitoring Solutions for Cold Chain Market, Porter's 5 Force Model
- FIG 7. Global Real-time Monitoring Solutions for Cold Chain Market, PESTEL Analysis
- FIG 8. Global Real-time Monitoring Solutions for Cold Chain Market, Value Chain Analysis
- FIG 9. Global Real-time Monitoring Solutions for Cold Chain Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 10. Global Real-time Monitoring Solutions for Cold Chain Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 11. Global Real-time Monitoring Solutions for Cold Chain Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 12. Global Real-time Monitoring Solutions for Cold Chain Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 13. Global Real-time Monitoring Solutions for Cold Chain Market by Segment, 2022 & 2032 (USD Million/Billion)
- FIG 14. Global Real-time Monitoring Solutions for Cold Chain Market, Regional Snapshot 2022 & 2032
- FIG 15. North America Real-time Monitoring Solutions for Cold Chain Market 2022 & 2032 (USD Million/Billion)
- FIG 16. Europe Real-time Monitoring Solutions for Cold Chain Market 2022 & 2032 (USD Million/Billion)
- FIG 17. Asia Pacific Real-time Monitoring Solutions for Cold Chain Market 2022 & 2032 (USD Million/Billion)
- FIG 18. Latin America Real-time Monitoring Solutions for Cold Chain Market 2022 & 2032 (USD Million/Billion)
- FIG 19. Middle East & Africa Real-time Monitoring Solutions for Cold Chain Market 2022 & 2032 (USD Million/Billion)



FIG 20. Global Real-time Monitoring Solutions for Cold Chain Market, Company Market Share Analysis (2023)

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