

# Digital Supply Chain Platforms Market Forecasts to 2034 – Global Analysis By Component (Software and Services), Deployment Mode, Technology, Function, End User and By Geography

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## Abstracts

According to Statistics MRC, the Global Digital Supply Chain Platforms Market is accounted for \$9.9 billion in 2026 and is expected to reach \$236.4 billion by 2034 growing at a CAGR of 37.2% during the forecast period. Digital Supply Chain Platforms are integrated software solutions that enable organizations to manage, monitor, and optimize their supply chain operations end-to-end. They combine advanced technologies such as artificial intelligence, machine learning, IoT, blockchain, and analytics to improve demand planning, inventory management, logistics, procurement, and supplier collaboration. These platforms provide real-time visibility, predictive insights, and automation capabilities, helping businesses reduce costs, enhance efficiency, improve customer satisfaction, and respond swiftly to disruptions in complex global supply chains.

### Market Dynamics:

#### Driver:

Growing need for supply chain resilience and visibility

The increasing frequency of global disruptions, from geopolitical tensions to natural disasters, is compelling organizations to prioritize supply chain resilience. Businesses are investing heavily in digital platforms to gain end-to-end visibility, enabling them to anticipate risks and respond proactively. Real-time data analytics and control towers are becoming essential for managing complex, multi-tier supply networks. The shift from

just-in-time to just-in-case inventory strategies further fuels the adoption of robust digital tools. Enhanced visibility allows for better demand forecasting, supplier collaboration, and inventory optimization, making supply chains more adaptable. This focus on resilience is a primary catalyst for market growth.

**Restraint:**

High implementation costs and integration complexities

Deploying comprehensive digital supply chain platforms requires significant capital investment in software, infrastructure, and skilled personnel. The complexity of integrating these new platforms with legacy enterprise resource planning (ERP) systems and existing operational technology poses a major challenge. Many organizations struggle with data silos, inconsistent data formats, and a lack of interoperability, which can delay implementation and reduce ROI. Small and medium-sized enterprises (SMEs) often find the upfront costs prohibitive. Additionally, the need for continuous training and change management to ensure user adoption adds to the total cost of ownership, slowing down market penetration.

**Opportunity:**

Rapid adoption of AI and predictive analytics

The integration of artificial intelligence (AI) and machine learning (ML) into supply chain platforms is creating significant growth opportunities by transforming reactive processes into proactive strategies. AI-powered predictive analytics enable accurate demand forecasting, optimize routing, and automate warehouse operations, leading to substantial cost savings. Generative AI is emerging as a powerful tool for scenario planning and supply chain design. As businesses seek to automate decision-making and unlock deeper insights from their data, the demand for platforms with advanced AI capabilities is surging. This technological evolution allows for hyper-personalization and efficiency gains previously unattainable.

**Threat:**

Cybersecurity and data privacy risks

As supply chains become increasingly digitized and interconnected, they expand the attack surface for cyber threats, posing a significant threat to market stability. A breach

in a digital supply chain platform can expose sensitive operational data, intellectual property, and customer information, leading to financial loss and reputational damage. Ransomware attacks targeting logistics networks have demonstrated the potential to halt global operations. Ensuring data privacy across multiple jurisdictions with varying regulations adds another layer of complexity. Without robust cybersecurity frameworks, continuous monitoring, and stringent data governance, organizations may hesitate to fully embrace digital transformation.

### Covid-19 Impact

The COVID-19 pandemic served as a critical inflection point, exposing the fragility of traditional global supply chains. Lockdowns and demand volatility caused unprecedented disruptions, forcing organizations to accelerate digital transformation initiatives. The crisis highlighted the necessity for real-time visibility, scenario modeling, and supplier diversification. Companies rapidly adopted cloud-based supply chain platforms to enable remote work and maintain operational continuity. Investment in automation and AI surged as businesses sought to reduce human dependency. Post-pandemic, the focus has permanently shifted towards building resilient, agile, and intelligent supply chain networks.

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

The software segment is expected to account for the largest market share during the forecast period, driven by its critical role in enabling core digital capabilities. Supply chain planning, execution, and visibility software are foundational for managing complex global networks. Advanced solutions in transportation management and warehouse management are in high demand as companies seek to optimize logistics. The continuous evolution of software with AI, machine learning, and digital twin capabilities ensures it remains the central component of digital transformation strategies.

The retail & e-commerce segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the retail & e-commerce segment is predicted to witness the highest growth rate, due to rising consumer expectations for rapid, transparent delivery are forcing retailers to adopt digital supply chain platforms. These solutions enable real-time inventory visibility, optimize last-mile logistics, and facilitate seamless omnichannel fulfillment. Intense competitive pressure to reduce delivery times and manage complex return processes further accelerates adoption. Advanced analytics and AI help retailers

forecast demand accurately, ensuring stock availability while minimizing excess inventory costs.

### **Region with largest share:**

During the forecast period, the North America region is expected to hold the largest market share, supported by its technological leadership and early adoption of advanced technologies. The presence of major market players and a strong culture of innovation in AI and cloud computing drives continuous platform evolution. U.S. and Canadian companies are aggressively investing in digital transformation to reshore manufacturing and build supply chain resilience. A robust regulatory framework for data security and a highly competitive business environment encourage the rapid deployment of next-generation supply chain solutions.

### **Region with highest CAGR:**

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by its dominance as a global manufacturing hub and rapid industrialization. Massive investments in smart factories and logistics infrastructure in countries like China, India, and Japan are driving adoption. The region's complex supply networks, spanning multiple countries, necessitate robust digital platforms for management and visibility. Government initiatives promoting Industry 4.0 and digital transformation are accelerating market growth.

### **Key players in the market**

Some of the key players in Digital Supply Chain Platforms Market include SAP SE, Oracle Corporation, Microsoft Corporation, IBM Corporation, Salesforce, Inc., Amazon Web Services, Inc., Blue Yonder Group, Inc., Manhattan Associates, Inc., Kinaxis Inc., Infor, Inc., Epicor Software Corporation, Descartes Systems Group Inc., Coupa Software Inc., JDA Software Group, Inc., and Logility, Inc.

### **Key Developments:**

In March 2026, IBM completed its acquisition of Confluent, Inc., the data streaming platform that more than 6,500 enterprises, including 40% of the Fortune 500, rely on to power real-time operations. Together, IBM and Confluent deliver a smart data platform that gives every AI model, agent, and automated workflow the real-time, trusted data needed to operate across on-premises and hybrid cloud environments at scale.

In February 2026, Oracle and Oracle Red Bull Racing announced a multi-year extension and expansion of their title partnership as the Team prepares for the most significant regulation shift in modern F1 history. This renewal builds on the most integrated team technology partnership in F1, with Oracle technology powering the Team's success and helping deliver a competitive advantage under pressure.

#### Components Covered:

Software

Services

#### Deployment Modes Covered:

Cloud-Based

On-Premises

Hybrid

#### Technologies Covered:

Artificial Intelligence and Machine Learning

Internet of Things (IoT)

Blockchain

Big Data and Analytics

Robotic Process Automation (RPA)

Cloud Computing

Digital Twins

**Functions Covered:**

Demand Planning and Forecasting

Inventory Management

Order Management

Supplier Collaboration

Logistics and Transportation

Warehousing

Aftermarket and Reverse Logistics

**End Users Covered:**

Manufacturing

Retail and E-Commerce

Healthcare and Pharmaceuticals

Automotive

Food and Beverage

Consumer Goods

Logistics and Transportation

Aerospace and Defense

Energy and Utilities

Other End Users

**Regions Covered:****North America**

United States

Canada

Mexico

**Europe**

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

**Asia Pacific**

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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:

#### 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**

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

### **2 RESEARCH FRAMEWORK**

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
  - 2.4.1 Data Collection (Primary and Secondary)
  - 2.4.2 Data Modeling and Estimation Techniques
  - 2.4.3 Data Validation and Triangulation
  - 2.4.4 Analytical and Forecasting Approach

### **3 MARKET DYNAMICS AND TREND ANALYSIS**

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

### **4 COMPETITIVE AND STRATEGIC ASSESSMENT**

- 4.1 Porter's Five Forces Analysis
  - 4.1.1 Supplier Bargaining Power
  - 4.1.2 Buyer Bargaining Power
  - 4.1.3 Threat of Substitutes
  - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

## **5 GLOBAL DIGITAL SUPPLY CHAIN PLATFORMS MARKET, BY COMPONENT**

- 5.1 Software
  - 5.1.1 Supply Chain Planning
  - 5.1.2 Supply Chain Execution
  - 5.1.3 Visibility and Analytics
  - 5.1.4 Procurement and Sourcing
  - 5.1.5 Warehouse Management
  - 5.1.6 Transportation Management
- 5.2 Services
  - 5.2.1 Professional Services
  - 5.2.2 Managed Services
  - 5.2.3 Support and Maintenance

## **6 GLOBAL DIGITAL SUPPLY CHAIN PLATFORMS MARKET, BY DEPLOYMENT MODE**

- 6.1 Cloud-Based
- 6.2 On-Premises
- 6.3 Hybrid

## **7 GLOBAL DIGITAL SUPPLY CHAIN PLATFORMS MARKET, BY TECHNOLOGY**

- 7.1 Artificial Intelligence and Machine Learning
- 7.2 Internet of Things (IoT)
- 7.3 Blockchain
- 7.4 Big Data and Analytics
- 7.5 Robotic Process Automation (RPA)
- 7.6 Cloud Computing
- 7.7 Digital Twins

## **8 GLOBAL DIGITAL SUPPLY CHAIN PLATFORMS MARKET, BY FUNCTION**

- 8.1 Demand Planning and Forecasting
- 8.2 Inventory Management

- 8.3 Order Management
- 8.4 Supplier Collaboration
- 8.5 Logistics and Transportation
- 8.6 Warehousing
- 8.7 Aftermarket and Reverse Logistics

## **9 GLOBAL DIGITAL SUPPLY CHAIN PLATFORMS MARKET, BY END USER**

- 9.1 Manufacturing
- 9.2 Retail and E-Commerce
- 9.3 Healthcare and Pharmaceuticals
- 9.4 Automotive
- 9.5 Food and Beverage
- 9.6 Consumer Goods
- 9.7 Logistics and Transportation
- 9.8 Aerospace and Defense
- 9.9 Energy and Utilities
- 9.10 Other End Users

## **10 GLOBAL DIGITAL SUPPLY CHAIN PLATFORMS MARKET, BY GEOGRAPHY**

- 10.1 North America
  - 10.1.1 United States
  - 10.1.2 Canada
  - 10.1.3 Mexico
- 10.2 Europe
  - 10.2.1 United Kingdom
  - 10.2.2 Germany
  - 10.2.3 France
  - 10.2.4 Italy
  - 10.2.5 Spain
  - 10.2.6 Netherlands
  - 10.2.7 Belgium
  - 10.2.8 Sweden
  - 10.2.9 Switzerland
  - 10.2.10 Poland
  - 10.2.11 Rest of Europe
- 10.3 Asia Pacific
  - 10.3.1 China

- 10.3.2 Japan
- 10.3.3 India
- 10.3.4 South Korea
- 10.3.5 Australia
- 10.3.6 Indonesia
- 10.3.7 Thailand
- 10.3.8 Malaysia
- 10.3.9 Singapore
- 10.3.10 Vietnam
- 10.3.11 Rest of Asia Pacific
- 10.4 South America
  - 10.4.1 Brazil
  - 10.4.2 Argentina
  - 10.4.3 Colombia
  - 10.4.4 Chile
  - 10.4.5 Peru
  - 10.4.6 Rest of South America
- 10.5 Rest of the World (RoW)
  - 10.5.1 Middle East
    - 10.5.1.1 Saudi Arabia
    - 10.5.1.2 United Arab Emirates
    - 10.5.1.3 Qatar
    - 10.5.1.4 Israel
    - 10.5.1.5 Rest of Middle East
  - 10.5.2 Africa
    - 10.5.2.1 South Africa
    - 10.5.2.2 Egypt
    - 10.5.2.3 Morocco
    - 10.5.2.4 Rest of Africa

## **11 STRATEGIC MARKET INTELLIGENCE**

- 11.1 Industry Value Network and Supply Chain Assessment
- 11.2 White-Space and Opportunity Mapping
- 11.3 Product Evolution and Market Life Cycle Analysis
- 11.4 Channel, Distributor, and Go-to-Market Assessment

## **12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES**

- 12.1 Mergers and Acquisitions
- 12.2 Partnerships, Alliances, and Joint Ventures
- 12.3 New Product Launches and Certifications
- 12.4 Capacity Expansion and Investments
- 12.5 Other Strategic Initiatives

## **13 COMPANY PROFILES**

- 13.1 SAP SE
- 13.2 Oracle Corporation
- 13.3 Microsoft Corporation
- 13.4 IBM Corporation
- 13.5 Salesforce, Inc.
- 13.6 Amazon Web Services, Inc.
- 13.7 Blue Yonder Group, Inc.
- 13.8 Manhattan Associates, Inc.
- 13.9 Kinaxis Inc.
- 13.10 Infor, Inc.
- 13.11 Epicor Software Corporation
- 13.12 Descartes Systems Group Inc.
- 13.13 Coupa Software Inc.
- 13.14 JDA Software Group, Inc.
- 13.15 Logility, Inc.

## List Of Tables

### LIST OF TABLES

Table 1 Global Digital Supply Chain Platforms Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Digital Supply Chain Platforms Market Outlook, By Component (2023-2034) (\$MN)

Table 3 Global Digital Supply Chain Platforms Market Outlook, By Software (2023-2034) (\$MN)

Table 4 Global Digital Supply Chain Platforms Market Outlook, By Supply Chain Planning (2023-2034) (\$MN)

Table 5 Global Digital Supply Chain Platforms Market Outlook, By Supply Chain Execution (2023-2034) (\$MN)

Table 6 Global Digital Supply Chain Platforms Market Outlook, By Visibility and Analytics (2023-2034) (\$MN)

Table 7 Global Digital Supply Chain Platforms Market Outlook, By Procurement and Sourcing (2023-2034) (\$MN)

Table 8 Global Digital Supply Chain Platforms Market Outlook, By Warehouse Management (2023-2034) (\$MN)

Table 9 Global Digital Supply Chain Platforms Market Outlook, By Transportation Management (2023-2034) (\$MN)

Table 10 Global Digital Supply Chain Platforms Market Outlook, By Services (2023-2034) (\$MN)

Table 11 Global Digital Supply Chain Platforms Market Outlook, By Professional Services (2023-2034) (\$MN)

Table 12 Global Digital Supply Chain Platforms Market Outlook, By Managed Services (2023-2034) (\$MN)

Table 13 Global Digital Supply Chain Platforms Market Outlook, By Support and Maintenance (2023-2034) (\$MN)

Table 14 Global Digital Supply Chain Platforms Market Outlook, By Deployment Mode (2023-2034) (\$MN)

Table 15 Global Digital Supply Chain Platforms Market Outlook, By Cloud-Based (2023-2034) (\$MN)

Table 16 Global Digital Supply Chain Platforms Market Outlook, By On-Premises (2023-2034) (\$MN)

Table 17 Global Digital Supply Chain Platforms Market Outlook, By Hybrid (2023-2034) (\$MN)

Table 18 Global Digital Supply Chain Platforms Market Outlook, By Technology

(2023-2034) (\$MN)

Table 19 Global Digital Supply Chain Platforms Market Outlook, By Artificial Intelligence and Machine Learning (2023-2034) (\$MN)

Table 20 Global Digital Supply Chain Platforms Market Outlook, By Internet of Things (IoT) (2023-2034) (\$MN)

Table 21 Global Digital Supply Chain Platforms Market Outlook, By Blockchain (2023-2034) (\$MN)

Table 22 Global Digital Supply Chain Platforms Market Outlook, By Big Data and Analytics (2023-2034) (\$MN)

Table 23 Global Digital Supply Chain Platforms Market Outlook, By Robotic Process Automation (RPA) (2023-2034) (\$MN)

Table 24 Global Digital Supply Chain Platforms Market Outlook, By Cloud Computing (2023-2034) (\$MN)

Table 25 Global Digital Supply Chain Platforms Market Outlook, By Digital Twins (2023-2034) (\$MN)

Table 26 Global Digital Supply Chain Platforms Market Outlook, By Function (2023-2034) (\$MN)

Table 27 Global Digital Supply Chain Platforms Market Outlook, By Demand Planning and Forecasting (2023-2034) (\$MN)

Table 28 Global Digital Supply Chain Platforms Market Outlook, By Inventory Management (2023-2034) (\$MN)

Table 29 Global Digital Supply Chain Platforms Market Outlook, By Order Management (2023-2034) (\$MN)

Table 30 Global Digital Supply Chain Platforms Market Outlook, By Supplier Collaboration (2023-2034) (\$MN)

Table 31 Global Digital Supply Chain Platforms Market Outlook, By Logistics and Transportation (2023-2034) (\$MN)

Table 32 Global Digital Supply Chain Platforms Market Outlook, By Warehousing (2023-2034) (\$MN)

Table 33 Global Digital Supply Chain Platforms Market Outlook, By Aftermarket and Reverse Logistics (2023-2034) (\$MN)

Table 34 Global Digital Supply Chain Platforms Market Outlook, By End User (2023-2034) (\$MN)

Table 35 Global Digital Supply Chain Platforms Market Outlook, By Manufacturing (2023-2034) (\$MN)

Table 36 Global Digital Supply Chain Platforms Market Outlook, By Retail and E-Commerce (2023-2034) (\$MN)

Table 37 Global Digital Supply Chain Platforms Market Outlook, By Healthcare and Pharmaceuticals (2023-2034) (\$MN)

Table 38 Global Digital Supply Chain Platforms Market Outlook, By Automotive (2023-2034) (\$MN)

Table 39 Global Digital Supply Chain Platforms Market Outlook, By Food and Beverage (2023-2034) (\$MN)

Table 40 Global Digital Supply Chain Platforms Market Outlook, By Consumer Goods (2023-2034) (\$MN)

Table 41 Global Digital Supply Chain Platforms Market Outlook, By Logistics and Transportation (2023-2034) (\$MN)

Table 42 Global Digital Supply Chain Platforms Market Outlook, By Aerospace and Defense (2023-2034) (\$MN)

Table 43 Global Digital Supply Chain Platforms Market Outlook, By Energy and Utilities (2023-2034) (\$MN)

Table 44 Global Digital Supply Chain Platforms Market Outlook, By Other End Users (2023-2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

## I would like to order

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