

Last-Mile Logistics Technology Market Forecasts to 2034 – Global Analysis By Solution Type (Route Optimization and Planning, Delivery Management Software, Fleet Management Systems, Real-Time Tracking and Visibility, Electronic Proof of Delivery, Artificial Intelligence and Predictive Analytics, and Parcel Lockers and Smart Delivery Systems), Deployment, Delivery Mode, Application, End User, and By Geography

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Abstracts

According to Statistics MRC, the Global Last-Mile Logistics Technology Market is accounted for \$17.9 billion in 2026 and is expected to reach \$44.9 billion by 2034 growing at a CAGR of 12.2% during the forecast period. Last-mile logistics technology refers to software and hardware solutions that optimize and manage the final stage of delivery from distribution centers to end customers, encompassing route optimization and planning, delivery management software, fleet management systems, real-time tracking and visibility, electronic proof of delivery, artificial intelligence and predictive analytics, and parcel lockers and smart delivery systems. These solutions are deployed through cloud-based, on-premises, and hybrid models, supporting van and truck delivery, two-wheeler delivery, cargo bike delivery, autonomous delivery robots, drone delivery, and pickup and locker-based delivery. Growing e-commerce expansion and demand for delivery efficiency are key drivers of market expansion.

Market Dynamics:

Driver:

E-commerce growth and demand for delivery efficiency

The exponential growth of e-commerce and increasing demand for efficient last-mile delivery are primary drivers for the last-mile logistics technology market. Consumers expect fast, reliable, and trackable deliveries. Delivery providers seek to reduce costs and improve operational efficiency. Route optimization and real-time tracking enhance delivery performance. Technology solutions enable scalable operations to meet growing demand. As e-commerce continues expanding, demand for last-mile logistics technology increases across all solution categories, supporting sustained market growth.

Restraint:

High implementation costs and integration challenges

The significant investment required for last-mile logistics technology and complexity of integration with existing systems represent a major restraint for the market. Advanced solutions require substantial capital investment. Integration with legacy delivery management systems creates technical challenges. Data standardization issues affect implementation. Smaller delivery providers may lack resources for technology adoption. These cost and integration barriers may limit market growth, particularly among smaller operators.

Opportunity:

Integration of AI and predictive analytics

The growing adoption of artificial intelligence and predictive analytics presents significant opportunities for last-mile logistics technology market expansion. AI-powered route optimization reduces delivery times and costs. Predictive analytics enable proactive customer communication and delivery planning. Machine learning improves delivery success rates. Dynamic routing adapts to real-time conditions. As AI capabilities advance, intelligent last-mile solutions capture growing market share.

Threat:

Competition from integrated platform solutions

Competition from integrated logistics platforms offering bundled technology solutions poses significant threats to standalone last-mile technology providers. Major logistics companies develop proprietary solutions. E-commerce platforms offer integrated delivery management. Technology convergence may reduce demand for point

solutions. This competition may limit market share for specialized providers.

Covid-19 Impact:

The COVID-19 pandemic significantly accelerated last-mile logistics technology adoption as delivery volumes surged. Contactless delivery requirements drove technology investment. Real-time tracking and communication capabilities became essential. E-commerce growth accelerated technology adoption. Post-pandemic, sustained delivery demand has supported continued market growth.

The Route Optimization and Planning segment is expected to be the largest during the forecast period

The Route Optimization and Planning segment is expected to account for the largest market share during the forecast period, driven by the critical role of routing in delivery efficiency and cost reduction. Route optimization reduces fuel consumption, labor costs, and delivery times. The segment benefits from continuous advancement in optimization algorithms. Growing delivery volumes increase the value of route optimization. As the foundational last-mile technology, route optimization maintains the largest solution type segment share.

The Artificial Intelligence and Predictive Analytics segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the Artificial Intelligence and Predictive Analytics segment is predicted to witness the highest growth rate, fueled by the growing adoption of AI across delivery operations, including demand prediction, dynamic routing, and customer communication. AI enables proactive decision-making that improves delivery performance and customer satisfaction. The segment benefits from continuous advancement in machine learning capabilities. As AI adoption accelerates, this solution delivers the fastest segment growth.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, supported by advanced technology infrastructure, strong presence of technology providers, and high adoption of delivery optimization solutions. The United

States leads regional growth with significant investment in last-mile technology. Major e-commerce and logistics companies drive innovation. High delivery volumes support technology demand. With technology leadership and market maturity, North America maintains its dominant market position.

Region with highest CAGR:

Over the forecast period, the Asia-Pacific region is anticipated to exhibit the highest CAGR, driven by rapid e-commerce growth, expanding delivery volumes, and increasing technology adoption across China, India, and Southeast Asia. The region's large and growing delivery market creates substantial demand for optimization solutions. Government initiatives supporting logistics digitalization accelerate adoption. Growing competition drives technology investment. As delivery ecosystems modernize, Asia Pacific delivers the fastest market growth globally.

Key players in the market

Some of the key players in Last-Mile Logistics Technology Market include Manhattan Associates, Inc., Blue Yonder, Descartes Systems Group Inc., FarEye Technologies, Bringg, Onfleet, Route4Me, project44, FourKites, Inc., Locus, Wise Systems, DispatchTrack, OptimoRoute, Shippy, and LogiNext.

Key Developments:

In July 2026, Descartes announced the \$30 million acquisition of Chile-based last-mile routing and delivery management platform Drivin, significantly strengthening its AI dispatch and route optimization reach across Latin America.

In July 2026, DispatchTrack launched DataSense, an AI-powered conversational data intelligence engine that connects delivery managers and executives directly to actionable last-mile route and fleet metrics.

In April 2026, Shippy was recognized in Gartner's Magic Quadrant for Transportation Management Systems for the third consecutive year, highlighting its agentic AI workforce, AgentFleet, which automates dispatch and real-time delivery exception recovery.

Solution Types Covered:

Route Optimization and Planning

Delivery Management Software

Fleet Management Systems

Real-Time Tracking and Visibility

Electronic Proof of Delivery

Artificial Intelligence and Predictive Analytics

Parcel Lockers and Smart Delivery Systems

Deployment Types Covered:

Cloud-Based

On-Premises

Hybrid

Delivery Modes Covered:

Van and Truck Delivery

Two-Wheeler Delivery

Cargo Bike Delivery

Autonomous Delivery Robots

Drone Delivery

Pickup and Locker-Based Delivery

Applications Covered:

Route Planning

Dispatch and Scheduling

Delivery Tracking

Customer Communication

Returns Management

Delivery Performance Analytics

End Users Covered:

E-Commerce and Retail

Food and Grocery

Healthcare and Pharmaceuticals

Logistics Service Providers

Manufacturing

Restaurants and Foodservice

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 LAST-MILE LOGISTICS TECHNOLOGY MARKET, BY SOLUTION TYPE

- 5.1 Route Optimization and Planning
- 5.2 Delivery Management Software
- 5.3 Fleet Management Systems
- 5.4 Real-Time Tracking and Visibility
- 5.5 Electronic Proof of Delivery
- 5.6 Artificial Intelligence and Predictive Analytics
- 5.7 Parcel Lockers and Smart Delivery Systems

6 GLOBAL LAST-MILE LOGISTICS TECHNOLOGY MARKET, BY DEPLOYMENT

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

7 GLOBAL LAST-MILE LOGISTICS TECHNOLOGY MARKET, BY DELIVERY MODE

- 7.1 Van and Truck Delivery
- 7.2 Two-Wheeler Delivery
- 7.3 Cargo Bike Delivery
- 7.4 Autonomous Delivery Robots
- 7.5 Drone Delivery
- 7.6 Pickup and Locker-Based Delivery

8 GLOBAL LAST-MILE LOGISTICS TECHNOLOGY MARKET, BY APPLICATION

- 8.1 Route Planning
- 8.2 Dispatch and Scheduling
- 8.3 Delivery Tracking
- 8.4 Customer Communication
- 8.5 Returns Management
- 8.6 Delivery Performance Analytics

9 GLOBAL LAST-MILE LOGISTICS TECHNOLOGY MARKET, BY END USER

- 9.1 E-Commerce and Retail
- 9.2 Food and Grocery
- 9.3 Healthcare and Pharmaceuticals
- 9.4 Logistics Service Providers
- 9.5 Manufacturing
- 9.6 Restaurants and Foodservice

10 GLOBAL LAST-MILE LOGISTICS TECHNOLOGY 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 Manhattan Associates, Inc.
- 13.2 Blue Yonder
- 13.3 Descartes Systems Group Inc.

13.4 FarEye Technologies

13.5 Bringg

13.6 Onfleet

13.7 Route4Me

13.8 project44

13.9 FourKites, Inc.

13.10 Locus

13.11 Wise Systems

13.12 DispatchTrack

13.13 OptimoRoute

13.14 Shippy

13.15 LogiNext

List of Tables

Table 1 Global Last-Mile Logistics Technology Market Outlook, By Region (2023–2034) (\$MN)

Table 2 Global Last-Mile Logistics Technology Market Outlook, By Solution Type (2023–2034) (\$MN)

Table 3 Global Last-Mile Logistics Technology Market Outlook, By Route Optimization and Planning (2023–2034) (\$MN)

Table 4 Global Last-Mile Logistics Technology Market Outlook, By Delivery Management Software (2023–2034) (\$MN)

Table 5 Global Last-Mile Logistics Technology Market Outlook, By Fleet Management Systems (2023–2034) (\$MN)

Table 6 Global Last-Mile Logistics Technology Market Outlook, By Real-Time Tracking and Visibility (2023–2034) (\$MN)

Table 7 Global Last-Mile Logistics Technology Market Outlook, By Electronic Proof of Delivery (2023–2034) (\$MN)

Table 8 Global Last-Mile Logistics Technology Market Outlook, By Artificial Intelligence and Predictive Analytics (2023–2034) (\$MN)

Table 9 Global Last-Mile Logistics Technology Market Outlook, By Parcel Lockers and Smart Delivery Systems (2023–2034) (\$MN)

Table 10 Global Last-Mile Logistics Technology Market Outlook, By Deployment (2023–2034) (\$MN)

Table 11 Global Last-Mile Logistics Technology Market Outlook, By Cloud-Based (2023–2034) (\$MN)

Table 12 Global Last-Mile Logistics Technology Market Outlook, By On-Premises (2023–2034) (\$MN)

Table 13 Global Last-Mile Logistics Technology Market Outlook, By Hybrid (2023–2034) (\$MN)

Table 14 Global Last-Mile Logistics Technology Market Outlook, By Delivery Mode (2023–2034) (\$MN)

Table 15 Global Last-Mile Logistics Technology Market Outlook, By Van and Truck Delivery (2023–2034) (\$MN)

Table 16 Global Last-Mile Logistics Technology Market Outlook, By Two-Wheeler Delivery (2023–2034) (\$MN)

Table 17 Global Last-Mile Logistics Technology Market Outlook, By Cargo Bike Delivery (2023–2034) (\$MN)

Table 18 Global Last-Mile Logistics Technology Market Outlook, By Autonomous Delivery Robots (2023–2034) (\$MN)

Table 19 Global Last-Mile Logistics Technology Market Outlook, By Drone Delivery (2023–2034) (\$MN)

Table 20 Global Last-Mile Logistics Technology Market Outlook, By Pickup and Locker-Based Delivery (2023–2034) (\$MN)

Table 21 Global Last-Mile Logistics Technology Market Outlook, By Application (2023–2034) (\$MN)

Table 22 Global Last-Mile Logistics Technology Market Outlook, By Route Planning (2023–2034) (\$MN)

Table 23 Global Last-Mile Logistics Technology Market Outlook, By Dispatch and Scheduling (2023–2034) (\$MN)

Table 24 Global Last-Mile Logistics Technology Market Outlook, By Delivery Tracking (2023–2034) (\$MN)

Table 25 Global Last-Mile Logistics Technology Market Outlook, By Customer Communication (2023–2034) (\$MN)

Table 26 Global Last-Mile Logistics Technology Market Outlook, By Returns Management (2023–2034) (\$MN)

Table 27 Global Last-Mile Logistics Technology Market Outlook, By Delivery Performance Analytics (2023–2034) (\$MN)

Table 28 Global Last-Mile Logistics Technology Market Outlook, By End User (2023–2034) (\$MN)

Table 29 Global Last-Mile Logistics Technology Market Outlook, By E-Commerce and Retail (2023–2034) (\$MN)

Table 30 Global Last-Mile Logistics Technology Market Outlook, By Food and Grocery (2023–2034) (\$MN)

Table 31 Global Last-Mile Logistics Technology Market Outlook, By Healthcare and Pharmaceuticals (2023–2034) (\$MN)

Table 32 Global Last-Mile Logistics Technology Market Outlook, By Logistics Service Providers (2023–2034) (\$MN)

Table 33 Global Last-Mile Logistics Technology Market Outlook, By Manufacturing

(2023–2034) (\$MN)

Table 34 Global Last-Mile Logistics Technology Market Outlook, By Restaurants and Foodservice (2023–2034) (\$MN)

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

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