

# Autonomous Last Mile Delivery Market to Reach \$6.24B by 2032 | DataM Intelligence

*Autonomous last mile delivery solutions are transforming logistics with AI and robotics, fueled by e-commerce growth and smart infrastructure investment.*

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[Autonomous Last Mile Delivery Market](#) reached US\$1.12 billion in 2024 and is expected to reach US\$6.24 billion by 2032, growing at a CAGR of 24% from 2025-2032.

The autonomous last mile delivery market is gaining traction as companies seek faster, safer, and more efficient ways to deliver goods directly to consumers. With the rise of e-commerce, urban congestion, and the demand for contactless services, businesses are turning to innovative technologies like self-driving robots and drones to fulfill the last leg of delivery. This final stretch, often the most expensive and complex, is now being reimagined with autonomy and automation at its core.

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Autonomous last mile delivery market is projected to grow at a 24% CAGR, reaching \$6.24B by 2032, fueled by advances in AI, robotics, and the rising demand for faster, safer, contactless deliveries.”

*DataM Intelligence*

The shift in consumer behavior, particularly toward online shopping and food delivery, has drastically transformed delivery expectations. Businesses are now under pressure to reduce delivery times and costs while ensuring reliability and safety. This pressure, combined with ongoing labor shortages in the logistics sector, is pushing companies to adopt autonomous technologies for last mile delivery.

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Regional Outlook



## North America

North America remains at the forefront of the autonomous delivery revolution. With strong investments in robotics and AI, the region is home to many pioneering companies that are conducting large-scale trials and pilot programs. The region's favorable regulatory environment, coupled with consumer openness to innovation, makes it a fertile ground for autonomous delivery solutions.

## Asia-Pacific (Focus: Japan)

Japan is another hotbed for innovation in autonomous delivery. Faced with an aging population and a shrinking labor force, Japan has embraced robotics in nearly every sector including logistics. The country's dense urban environments and high-tech infrastructure provide a unique backdrop for autonomous delivery pilots.

Companies in Japan are increasingly relying on robots and aerial drones to deliver packages, food, and even medical supplies. The government is actively supporting these initiatives by streamlining regulatory processes and investing in smart city infrastructure to facilitate seamless deployment.

## Key Companies in the Market

Airbus S.A.S

Amazon

DHL International GmbH

DPD Group

Drone Delivery Canada

Flirtey

Flytrex

JD.com

MATTERNET

Savioke.

## Latest News of USA

The U.S. remains a leader in advancing autonomous last-mile delivery solutions. In Texas, a major electric vehicle company is preparing to roll out a fleet of self-driving robotaxis that could reshape urban delivery systems. This rollout is expected to involve thousands of vehicles, contributing significantly to the local logistics infrastructure.

However, concerns about safety remain a major hurdle. Recent scrutiny from federal transport authorities has prompted companies to improve safety protocols and invest in more robust systems for navigation and object detection.

Drone delivery in the U.S. also faced some turbulence recently. A major retail giant experienced

setbacks when two of its test drones crashed during trial flights. The issue was traced back to a faulty software update and the removal of certain safety sensors. Although the situation was quickly addressed and flights resumed, it highlighted the challenges of scaling such complex systems.

Despite these hurdles, drone delivery is becoming increasingly common in selected U.S. towns. A leading drone startup has already completed over a million deliveries in the country, working with national retailers and food chains to test and expand its operations.

## Latest News of Japan

In Japan, autonomous delivery is gaining serious momentum. One of the country's leading e-commerce companies is evaluating the introduction of autonomous mobile robots for regular deliveries. This is a strategic move to combat the shortage of delivery drivers and maintain service quality.

Japan's largest convenience store chain has also begun testing self-driving delivery robots in partnership with a local automaker and a robotics startup. These robots are being trialed in busy urban areas and are designed to deliver goods over short distances without human intervention.

The Japanese government is playing a proactive role in supporting these initiatives. New legislation has been introduced to ease restrictions on autonomous vehicles and drones, helping to fast-track commercial applications. There's also growing public interest and acceptance, especially in cities where such technology is seen as a necessary evolution of everyday logistics.

## Market Segmentation:

By Platform: Ground Delivery Vehicles, Aerial Delivery Drones.

By Solution: Hardware, Software, Services.

By Delivery Range: Short Range (<20 Kilometers), Long Range (>20 Kilometers).

By End-User: Food & Beverages, Retail, Healthcare, Others.

## Conclusion

The autonomous last mile delivery market is evolving rapidly, shaped by global shifts in consumer behavior, labor dynamics, and technological progress. While North America and Japan stand at the forefront, other regions are not far behind. As companies continue to invest in AI, robotics, and smart infrastructure, the future of delivery looks increasingly autonomous. With new pilots launching regularly and regulations becoming more adaptive, it's clear that autonomous last mile delivery is no longer a futuristic concept it's an imminent reality that's

already transforming how goods move across the globe.

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