

Digital Curb Management Market Forecasts to 2034 - Global Analysis By Solution Type (Curbside Reservation & Scheduling Platforms, Dynamic Pricing & Payment Systems, Real-Time Occupancy & Availability Monitoring, Enforcement & Compliance Management Tools, Analytics & Reporting Dashboards and Integration Middleware), Deployment Mode, Curb Use Case, Technology, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Digital Curb Management Market is accounted for \$299.4 million in 2026 and is expected to reach \$1065.9 million by 2034 growing at a CAGR of 17.2% during the forecast period. Digital Curb Management involves applying connected digital tools, real-time data, analytics, and intelligent software to optimize how curbside areas are used. These systems help municipalities manage parking, passenger pickup and drop-off, freight deliveries, transit operations, micromobility services, and other competing curb activities. By monitoring curb occupancy and availability, cities can allocate space more effectively while minimizing congestion and conflicts. Digital platforms can also facilitate flexible pricing, digital reservations, automated compliance monitoring, and evidence-based curb planning. As urban mobility becomes increasingly complex, digital curb management provides cities with greater visibility and control over curb resources, supporting more efficient, flexible, accessible, and well-coordinated transportation operations.

According to the U.S. Census Bureau, U.S. retail e-commerce sales reached \$326.7 billion in the first quarter of 2026, increasing 9.8% compared with the first quarter of

2025. E-commerce represented 16.9% of total U.S. retail sales during the quarter. The continued expansion of online retail supports demand for last-mile delivery activity and, consequently, efficient management of loading, pickup, and delivery curb space in urban areas.

Market Dynamics:

Driver:

Increasing urbanization and curbside congestion

Growing urban populations are placing greater demands on increasingly limited curbside areas. Parking, freight deliveries, public transit, ride-hailing, cycling, and other mobility services compete for the same spaces, creating operational conflicts and contributing to congestion. Conventional approaches have limited ability to monitor these activities or respond quickly to changing curbside requirements. Digital curb management systems allow cities to monitor space usage, organize access, coordinate different users, and improve the allocation of curb resources. Through connected platforms and real-time visibility, municipalities can manage increasingly complex curbside environments more effectively.

Restraint:

High implementation and infrastructure costs

Deploying digital curb management systems can involve considerable financial commitments for cities. Investments may be required for connected sensors, cameras, communication infrastructure, software platforms, payment technologies, data systems, and integration with existing transportation networks. Costs do not end after deployment, as ongoing maintenance, cyber security protection, platform upgrades, technical assistance, and employee training may require additional resources. These economic challenges may discourage smaller municipalities and budget-constrained urban authorities from adopting advanced curb management technologies, slowing market development and broader implementation across different cities.

Opportunity:

Integration with smart city and intelligent transportation systems

Connecting digital curb management solutions with smart city infrastructure and intelligent transportation platforms offers substantial growth potential. Municipalities can integrate curbside systems with parking management, traffic control, public transportation, shared mobility, and centralized urban data platforms. This connectivity allows cities to understand curb activity more comprehensively and coordinate available space according to transportation requirements. Integrated platforms can enable flexible pricing, automated compliance monitoring, real-time curb information, and predictive decision-making. The continued development of connected urban infrastructure creates opportunities for technology providers to offer interoperable curb management solutions.

Threat:

Regulatory and interoperability challenges

Variations in municipal regulations and technology standards can pose significant challenges to companies operating in the digital curb management market. Cities often maintain different parking policies, curb access rules, permitting frameworks, enforcement procedures, and data requirements. In addition, older transportation infrastructure may not easily connect with modern digital platforms, creating interoperability difficulties. Technology providers may consequently need to modify their solutions for different municipal environments, increasing complexity and deployment requirements. These challenges can raise development expenses, extend implementation schedules, and make large-scale expansion more difficult, potentially limiting the ability of digital curb management providers to achieve consistent growth across diverse markets.

Covid-19 Impact:

COVID-19 significantly altered curbside activity, creating both challenges and new requirements for digital curb management solutions. Lockdowns and reduced travel decreased traditional parking activity, whereas the growth of home delivery and curbside collection increased demand for convenient commercial loading and pickup spaces. Municipalities responded by temporarily changing curbs allocations to accommodate deliveries, essential operations, outdoor businesses, and changing mobility needs. The crisis demonstrated the value of technologies capable of monitoring curb usage and adjusting space allocation in real time. Overall, the pandemic accelerated demand for flexible curbside solutions while temporarily slowing some urban infrastructure spending.

The cloud-based segment is expected to be the largest during the forecast period

The cloud-based segment is expected to account for the largest market share during the forecast period because it offers adaptable infrastructure for operating and coordinating digital curb management activities. Municipalities can manage applications and information through centralized platforms that remain accessible across different locations and operational environments. These solutions can connect with parking technologies, curbside sensors, cameras, payment systems, mobility platforms, and other connected urban infrastructure. Features such as remote access, real-time data sharing, analytics, centralized administration, and flexible scalability make cloud-based platforms particularly appropriate for cities seeking efficient and responsive approaches to modern curbside management.

The logistics & delivery companies segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the logistics & delivery companies segment is predicted to witness the highest growth rate because expanding urban freight activity is increasing the need for better curbside coordination. Digital curb management technologies allow delivery operators to locate appropriate loading spaces, schedule curb access, monitor availability, and coordinate activities more efficiently. By connecting curb information with fleet management, routing, reservation, and real-time operational systems, logistics companies can improve delivery workflows and reduce unnecessary stopping or vehicle movement. The growing need for efficient last-mile operations and reliable loading access is therefore driving stronger adoption among logistics and delivery providers.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, driven by increasing investments in intelligent transportation and connected urban mobility solutions. Cities are adopting digital technologies to coordinate curbside parking, commercial deliveries, passenger pickup, public transportation, and shared mobility services. The region benefits from active collaboration between municipal authorities, transportation organizations, and technology companies, which is accelerating the development of modern curb management practices. Numerous cities in the United States and Canada are experimenting with digital curb inventories, real-time data platforms, smart reservation systems, sensing technologies, and automated compliance tools.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, as cities address increasing urban density, traffic activity, delivery volumes, and mobility demands. Countries including China, India, Japan, South Korea, and other Southeast Asian economies are advancing smart city initiatives and investing in digitally enabled transportation infrastructure. The expansion of e-commerce and last-mile delivery is intensifying competition for curbside space, increasing the need for technology-based allocation and monitoring. Investments in connected urban systems, digital transformation, and real-time mobility solutions are also encouraging adoption.

Key players in the market

Some of the key players in Digital Curb Management Market include AppyWay, Automotus, Blinkay, Blue Systems, Cleverciti Systems GmbH, Coord (Lyft), CurbFlow, CurbIQ, Duncan Parking, EastBanc Technologies, eleven-x, Flowbird, gtechna, Hayden AI, INRIX, Modii, Passport Labs and Populus.

Key Developments:

In June 2025, INRIX and western systems announce strategic partnership. At the heart of this partnership is INRIX Signal Analytics, a cloud-based platform that leverages anonymous connected vehicle data to provide real-time insights into traffic signal operations. This collaboration marks a significant step forward in transforming how cities and transportation agencies manage traffic signal performance and mobility infrastructure.

In January 2025, Flowbird Group and EasyPark Group have announced they will now come together as one organization. In an Open Letter to the Industry, their newly appointed CEO, Cameron Clayton, shares his insights on what this means for their customers and the future of urban mobility.

Solution Types Covered:

Curbside Reservation & Scheduling Platforms

Dynamic Pricing & Payment Systems

Real-Time Occupancy & Availability Monitoring

Enforcement & Compliance Management Tools

Analytics & Reporting Dashboards

Integration Middleware

Deployment Modes Covered:

Cloud-Based

On-Premises

Curb Use Cases Covered:

Passenger Pick-Up & Drop-Off Zones

Freight & Delivery Loading Zones

Ride-Hailing & Taxi Staging Areas

Micro-Mobility Parking

Public Transit Stops & Bus Lanes

Emergency & Priority Vehicle Access

Technologies Covered:

IoT Sensors & Smart Cameras

GPS & Geofencing Solutions

Mobile Applications

AI-Based Predictive Analytics

Cloud & Edge Computing Platforms

End Users Covered:

Municipal Governments & City Authorities

Transportation Agencies

Logistics & Delivery Companies

Ride-Hailing & Mobility Service Providers

Parking Operators

Commercial Property Owners

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

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