

Smart Street & Curb Management Market Forecasts to 2032 - Global Analysis By Component (Hardware, Software and Autonomous and Services), Deployment Model, Business Model, Application, End User and By Geography

<https://marketpublishers.com/r/SED1FCA5EA95EN.html>

Date: January 2026

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: SED1FCA5EA95EN

Abstracts

According to Statistics MRC, the Global Smart Street & Curb Management Market is accounted for \$2.69 billion in 2025 and is expected to reach \$8.07 billion by 2032 growing at a CAGR of 17% during the forecast period. Smart Street & Curb Management refers to the use of advanced technologies, data analytics, and IoT-enabled systems to optimize the use, safety, and efficiency of urban streets and curb spaces. It integrates real-time monitoring, dynamic parking management, traffic flow control, and curbside delivery coordination to reduce congestion, improve accessibility, and enhance urban mobility. By leveraging sensors, AI, and connected infrastructure, cities can prioritize various street uses?such as public transit, ride-hailing, loading zones, and pedestrian areas?while enabling data-driven decision-making for urban planners. The approach supports sustainability, safety, and convenience in modern smart cities.

Market Dynamics:

Driver:

Rising urbanization increases curb space demand

Growing populations and dense traffic flows are intensifying the need for efficient curb allocation. Smart curb management platforms enable dynamic scheduling, digital payments, and real-time monitoring of urban spaces. Vendors are embedding IoT

sensors and AI-driven analytics to strengthen utilization efficiency. Rising demand for organized curb access is reinforcing adoption in logistics, ride-hailing, and public transport. The ability to transform curbside operations into managed assets is positioning smart curb solutions as a cornerstone of urban mobility planning.

Restraint:

Limited cross-system data interoperability

Cities often operate fragmented systems that fail to communicate seamlessly across transport, parking, and logistics networks. Enterprises struggle to integrate curb management platforms with legacy infrastructure due to technical incompatibilities. Smaller municipalities face higher barriers compared to larger cities with advanced digital ecosystems. Vendors are experimenting with open APIs and standardized protocols to reduce integration challenges. The lack of interoperability is slowing scalability, making data harmonization a critical prerequisite for widespread adoption.

Opportunity:

AI-powered predictive curb utilization services

Cities increasingly require forecasting tools to anticipate demand spikes and optimize curb allocation. Predictive analytics enable dynamic pricing, congestion reduction, and improved service reliability. Vendors are embedding machine learning algorithms into curb platforms to strengthen efficiency. Governments and enterprises are investing in AI-driven urban infrastructure which reinforces demand. Predictive curb services are not only expanding adoption but redefining curbside management as a proactive, data-driven discipline.

Threat:

Regulatory hurdles in urban jurisdictions

Cities impose strict mandates on zoning, access rights, and data privacy that complicate implementation. Enterprises must invest heavily in compliance audits and monitoring systems to sustain trust. Smaller providers struggle to meet certification requirements compared to established technology vendors. Frequent policy changes create uncertainty for long-term investment planning. Regulatory fragmentation across jurisdictions is undermining scalability, making governance alignment a decisive

challenge for curb management providers.

Covid-19 Impact:

The Covid-19 pandemic disrupted urban mobility patterns and accelerated demand for flexible curb management solutions. On one hand, lockdowns reduced traffic volumes and delayed infrastructure projects. On the other hand, surging demand for contactless deliveries and essential services boosted adoption of smart curb platforms. Cities increasingly relied on digital scheduling and automated monitoring to ensure continuity during restrictions. Vendors embedded hygiene protocols, digital payments, and real-time analytics to strengthen consumer trust. The pandemic highlighted curbside management as a resilient framework for adapting urban logistics to crisis conditions.

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 demand for integrated platforms that enable real-time curb monitoring and scheduling. Software solutions provide cities with centralized dashboards to manage parking, deliveries, and ride-hailing access. Vendors are embedding predictive analytics and automation into software suites to improve efficiency. Rising demand for scalable and modular solutions is reinforcing adoption in this segment. Enterprises view software-driven curb management as critical for compliance and operational resilience. The dominance of software reflects its role as the digital backbone enabling smart curb ecosystems across diverse urban environments.

The public-private partnership segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the public-private partnership segment is predicted to witness the highest growth rate, supported by rising demand for collaborative models in urban infrastructure. Partnerships between municipalities and private operators enable shared investment and faster deployment of curb solutions. Vendors are embedding joint governance frameworks to strengthen accountability and service reliability. SMEs and startups benefit from PPP models that reduce capital burdens and accelerate market entry. Rising investment in smart city initiatives is reinforcing demand in this segment.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share by mature urban infrastructure and strong regulatory emphasis on digital mobility. Enterprises in the United States and Canada are leading investments in smart curb platforms to support logistics, ride-hailing, and public transport. The presence of major technology vendors further strengthens regional dominance. Rising demand for sustainable and multimodal transport is reinforcing adoption across metropolitan areas. Vendors are embedding advanced orchestration and compliance features to differentiate offerings in competitive markets. North America's leadership is defined by its ability to combine innovation, governance, and consumer trust in smart curb ecosystems.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, fueled by rapid urbanization, expanding mobile penetration, and government-led smart city initiatives. Countries such as China, India, and Southeast Asia are investing heavily in curb management platforms to support e-commerce, logistics, and public transport integration. Enterprises in the region are adopting AI-powered frameworks to strengthen scalability and meet consumer demand for instant mobility. Local startups are deploying cost-effective solutions tailored to dense urban ecosystems. Government programs promoting digital transformation and sustainable transport are accelerating adoption. Asia Pacific's trajectory is distinguished by its ability to scale innovation quickly, positioning it as the fastest-growing hub for smart curb management worldwide.

Key players in the market

Some of the key players in Smart Street & Curb Management Market include Coord, Populus Technologies, Inc., Automotus, Inc., Passport Labs, Inc., ParkMobile, LLC, INRIX, Inc., Conduent Incorporated, Siemens Mobility GmbH, Cubic Transportation Systems, Inc., Flowbird Group, TIBA Parking Systems, Genetec Inc., TransCore LP, Bosch Mobility Solutions and Kapsch TrafficCom AG.

Key Developments:

In October 2024, Populus and General Motors partnered to leverage connected vehicle data from GM's fleet to help cities manage curb zones more dynamically, particularly for commercial loading and ride-hailing activity. The initiative aims to reduce congestion and improve safety by providing data-driven insights into curb usage patterns.

In September 2024, Passport announced a strategic partnership with Metropolis Technologies, integrating its curb management platform with Metropolis's computer vision-powered parking and mobility infrastructure to enable seamless "check-in" based transactions and dynamic curb zoning. This collaboration aimed to unify parking, curb use, and tolling into a single digital experience for operators and users across North America.

Components Covered:

Hardware

Software

Services

Deployment Models Covered:

On-Premise

Cloud-Based

Business Models Covered:

Subscription

Pay-Per-Use

Public/Private Partnership

Advertising & Data

Hybrid

Applications Covered:

Micro-Mobility Parking

Emergency Access

Urban Logistics

Street Safety

Smart Lighting

Other Applications

End Users Covered:

Mobility Operators

Retail & Property Owners

Utilities

Citizens

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & 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 2024, 2025, 2026, 2028, and 2032
- 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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