+44 20 8123 2220
info@marketpublishers.com

Electronic Toll Collection Market Report by Technology (RFID, DSRC, and Others), System (Transponder - or Tag-Based Toll Collection Systems, and Other Toll Collection Systems), Subsystem (Automated Vehicle Identification, Automated Vehicle Classification, Violation Enforcement System, Transaction Processing), Offering (Hardware, Back Office and Other Services), Toll Charging (Distance Based, Point Based, Time Based, Perimeter Based), Application (Highways, Urban Areas), and Region 2024-2032

https://marketpublishers.com/r/E8723B43BFBCEN.html
Date: March 2024
Pages: 149
Price: US$ 3,899.00 (Single User License)
ID: E8723B43BFBCEN

Abstracts

The global electronic toll collection market size reached US$ 10.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 17.5 Billion by 2032, exhibiting a growth rate (CAGR) of 5.2% during 2024-2032. The market is primarily driven by rapid technological advancements, an enhanced focus on traffic management efficiency, and government initiatives for infrastructure modernization, driving widespread adoption of seamless and automated tolling systems for enhanced transportation effectiveness and reduced congestion.

Electronic Toll Collection Market Analysis:
Market Growth and Size: The global market is experiencing robust growth, driven by the increasing adoption of advanced tolling systems and the expansion of transportation infrastructure.
Major Market Drivers: Key drivers include the need for efficient traffic management,

government initiatives for infrastructure modernization, and the rising focus on sustainable transportation practices.

Technological Advancements: Continuous technological advancements, such as RFID, GPS, and machine learning, are propelling the market forward, improving the accuracy, efficiency, and interoperability of electronic toll collection systems.

Industry Applications: The applications extend across highways and urban areas, addressing challenges in both long-distance travel and managing congestion in city centers.

Key Market Trends: Distance-based toll charging is a dominant trend, aligning costs with actual road usage, and technological innovations, including automated vehicle classification, are shaping the market's trajectory.

Geographical Trends: North America leads the market, followed by the Asia Pacific and Europe, with varying regional dynamics influenced by infrastructure development, government policies, and smart city initiatives.

Competitive Landscape: Key players are driving the competitive landscape through investments in research and development, partnerships, and the introduction of interoperable tolling solutions.

Challenges and Opportunities: Challenges include the need for standardization, addressing interoperability issues, and managing the impact of toll evasion. Opportunities lie in sustainability efforts, further technological advancements, and partnerships to create comprehensive tolling solutions.

Future Outlook: The future outlook for the global market is promising, with ongoing investments, advancements in intelligent transportation, and a focus on eco-friendly tolling solutions contributing to the continued growth and expansion of the global market.

Electronic Toll Collection Market Trends:

Rapid technological advancements and innovation

The market is propelled by continuous technological advancements and innovations in tolling systems. As the transportation industry is growing, toll collection systems are integrating cutting-edge technologies such as RFID (Radio-Frequency Identification), GPS (Global Positioning System), and advanced sensors. These innovations enhance the efficiency of toll collection by enabling seamless and real-time transactions, reducing traffic congestion, and improving overall operational effectiveness. The adoption of these technologies not only streamlines toll collection processes but also contributes to the development of intelligent transportation systems, fostering a more connected and automated transportation infrastructure.

Increased focus on traffic management and congestion reduction

The growing concern over traffic congestion and the need for efficient traffic management drive the adoption of these collection systems. By automating toll payments, these systems minimize vehicle queuing at toll booths, leading to smoother traffic flow and reduced travel time. Governments and transportation authorities recognize the role of this toll collection in mitigating congestion-related issues, making it a key solution for enhancing overall road network efficiency. As urbanization continues and traffic volumes increase, these systems become integral components of smart city initiatives, contributing to sustainable and streamlined urban mobility.

Rising government initiatives for infrastructure modernization

Government initiatives aimed at modernizing transportation infrastructure play a pivotal role in driving the market. Various countries are investing in upgrading their tolling systems to electronic platforms as part of broader infrastructure development plans. These initiatives are often driven by the need to improve road safety, reduce toll evasion, and enhance overall transportation efficiency. Governments recognize the cost-effectiveness and long-term benefits of these toll collection systems, leading to widespread implementation and integration into national and regional transportation strategies. As a result, public-private partnerships and government-led projects fuel the expansion of electronic toll collection across extensive road networks, contributing to the market's sustained growth.

Electronic Toll Collection Industry Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on technology, system, subsystem, offering, toll charging, and application.

Breakup by Technology:
RFID
DSRC
Others

RFID accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the technology. This includes RFID, DSRC, and others. According to the report, RFID represented the largest segment.

Breakup by System:

Transponder - or Tag-Based Toll Collection Systems
Other Toll Collection Systems

Transponder - or tag-based toll collection systems hold the largest share of the industry

A detailed breakup and analysis of the market based on the system have also been provided in the report. This includes transponder - or tag-based toll collection systems and other toll collection systems. According to the report, transponder - or tag-based toll collection systems accounted for the largest market share.

Breakup by Subsystem:

Automated Vehicle Identification
Automated Vehicle Classification
Violation Enforcement System
Transaction Processing

Automated vehicle classification represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the subsystem. This includes automated vehicle identification, automated vehicle classification, violation enforcement system, and transaction processing. According to the report, automated vehicle classification represented the largest segment.

Breakup by Offering:

Hardware
Back Office and Other Services

Hardware represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the offering. This includes hardware and back office and other services. According to the report, hardware represented the largest segment.

+44 20 8123 2220
info@marketpublishers.com

Breakup by Toll Charging:

Distance Based
Point Based
Time Based
Perimeter Based

Distance based represents the leading market segment

The report has provided a detailed breakup and analysis of the market based on the toll charging. This includes distance based, point based, time based, and perimeter based. According to the report, distance based represented the largest segment.

Breakup by Application:

Highways
Urban Areas

Highways represent the leading market segment

The report has provided a detailed breakup and analysis of the market based on the application. This includes highways and urban areas. According to the report, highways represented the largest segment.

Breakup by Region:
North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France

United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

North America leads the market, accounting for the largest electronic toll collection market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (the United Kingdom, Germany, France, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America accounted for the largest market share.

The market research report has provided a comprehensive analysis of the competitive landscape. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

3M
Conduent Business Services LLC
Cubic Transportation Systems Inc.
Efkon AG
Kapsch Trafficcom AG
Q-Free
Raytheon Company
Schneider Electric
Siemens AG
Thales Group
Trans Core
Transurban Limited

Key Questions Answered in This Report

1. How big is the electronic toll collection market?
2. What is the expected growth rate of the global electronic toll collection market during 2024-2032?
3. What are the key factors driving the global electronic toll collection market?
4. What has been the impact of COVID-19 on the global electronic toll collection market?
5. What is the breakup of the global electronic toll collection market based on technology?
6. What is the breakup of the global electronic toll collection market based on system?
7. What is the breakup of the global electronic toll collection market based on the subsystem?
8. What is the breakup of the global electronic toll collection market based on the offering?
9. What is the breakup of the global electronic toll collection market based on the toll charging?
10. What is the breakup of the global electronic toll collection market based on the application?
11. What are the key regions in the global electronic toll collection market?
12. Who are the key players/companies in the global electronic toll collection market?

+44 20 8123 2220
info@marketpublishers.com

Contents

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+44 20 8123 2220
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+44 20 8123 2220
info@marketpublishers.com

+44 20 8123 2220
info@marketpublishers.com

I would like to order

Product name: Electronic Toll Collection Market Report by Technology (RFID, DSRC, and Others), System (Transponder - or Tag-Based Toll Collection Systems, and Other Toll Collection Systems), Subsystem (Automated Vehicle Identification, Automated Vehicle Classification, Violation Enforcement System, Transaction Processing), Offering (Hardware, Back Office and Other Services), Toll Charging (Distance Based, Point Based, Time Based, Perimeter Based), Application (Highways, Urban Areas), and Region 2024-2032

Product link: https://marketpublishers.com/r/E8723B43BFBCEN.html

Price: US$ 3,899.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/E8723B43BFBCEN.html

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:

Last name:

Email:

Company:

Address:

City:

Zip code:

Country:

Tel:

Fax:

Your message:

**All fields are required

Custumer signature ____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at https://marketpublishers.com/docs/terms.html

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970