

Global Electronic Toll Collection (ETC) Systems Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Electronic Toll Collection (ETC) Systems market size was valued at US\$ 5351 million in 2024 and is forecast to a readjusted size of USD 6835 million by 2031 with a CAGR of 3.6% during review period.

Electronic Toll Collection (ETC) Systems is an automated toll collection system based on electronic technology. It aims to collect tolls without stopping vehicles through wireless communication and sensor technology. The system is widely used in highways, bridges, tunnels and urban congestion charging areas, and is a core component of the Intelligent Transportation System (ITS).

As a new type of road toll collection method, the electronic toll collection system (ETC) has been widely used around the world, especially in China. The promotion and application of ETC has become one of the important means to improve traffic efficiency, ease traffic congestion and reduce environmental pollution. With the continuous advancement of science and technology and the popularization of the concept of intelligent transportation system (ITS), the market development of the ETC system has been continuously innovated and deepened. This article will analyze the current situation, development trends, technological innovations and challenges of the ETC market.

The electronic toll collection system (ETC) is an intelligent system that realizes automatic toll collection in transportation systems such as highways and urban roads through wireless communication technology and vehicle identification technology. Since the 1990s, ETC has gradually gone global, especially in Europe, the United States and

the Asia-Pacific region, and has formed a relatively complete market system. In China, with the rapid development of transportation construction and the active support of government policies, ETC has made significant progress in the past few years.

With the continuous advancement of technology, the ETC system is also constantly upgrading and optimizing. At present, the ETC system has developed into a comprehensive system including multiple key links such as on-board equipment (OBU), toll station equipment, information transmission system, and background management platform. In terms of hardware, ETC's on-board equipment is gradually developing towards integration, intelligence and multi-functionality. It not only supports highway toll collection, but can also be connected to the urban traffic management system to achieve more traffic management functions.

In terms of software technology, the application of cloud computing, big data and artificial intelligence technology has significantly improved the data processing capacity of the ETC system, which can not only monitor road traffic conditions in real time, but also conduct accurate data analysis, optimize traffic flow management and decision support.

This report is a detailed and comprehensive analysis for global Electronic Toll Collection (ETC) Systems market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Electronic Toll Collection (ETC) Systems market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Electronic Toll Collection (ETC) Systems market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Electronic Toll Collection (ETC) Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Electronic Toll Collection (ETC) Systems market shares of main players, in

revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Electronic Toll Collection (ETC) Systems

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Electronic Toll Collection (ETC) Systems market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kapsch Trafficom AG, Jiangsu Tongxingbao Intelligent Transportation Technology, Shenzhen Genvict Technologies, Q-Free, Cubic Transportation Systems, Inc., Transcore, TRMI, Metro Infrasy, Transpeed, Beijing Juli Science&Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Electronic Toll Collection (ETC) Systems market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Vehicle Automatic Understanding System

Short Range Communication

Global Position Finding Satellite System

Market segment by Application

Highway

Urban

Others

Market segment by players, this report covers

Kapsch Trafficom AG

Jiangsu Tongxingbao Intelligent Transportation Technology

Shenzhen Genvict Technologies

Q-Free

Cubic Transportation Systems, Inc.

Transcore

TRMI

Metro Infrasy

Transpeed

Beijing Juli Science&Technology

Vanjee Technology

Shenzhen University of Technology Xinlian Technology

Chenggu Technology

Chongqing Tongyu Technology

Jietong Technology

Beijing Sutong Technology

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Electronic Toll Collection (ETC) Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Electronic Toll Collection (ETC) Systems, with revenue, gross margin, and global market share of Electronic Toll Collection (ETC) Systems from 2020 to 2025.

Chapter 3, the Electronic Toll Collection (ETC) Systems competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Electronic Toll Collection (ETC) Systems market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Electronic Toll Collection (ETC) Systems.

Chapter 13, to describe Electronic Toll Collection (ETC) Systems research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Electronic Toll Collection (ETC) Systems by Type

1.3.1 Overview: Global Electronic Toll Collection (ETC) Systems Market Size by Type: 2020 Versus 2024 Versus 2031

1.3.2 Global Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Type in 2024

1.3.3 Vehicle Automatic Understanding System

1.3.4 Short Range Communication

1.3.5 Global Position Finding Satellite System

1.4 Global Electronic Toll Collection (ETC) Systems Market by Application

1.4.1 Overview: Global Electronic Toll Collection (ETC) Systems Market Size by Application: 2020 Versus 2024 Versus 2031

1.4.2 Highway

1.4.3 Urban

1.4.4 Others

1.5 Global Electronic Toll Collection (ETC) Systems Market Size & Forecast

1.6 Global Electronic Toll Collection (ETC) Systems Market Size and Forecast by Region

1.6.1 Global Electronic Toll Collection (ETC) Systems Market Size by Region: 2020 VS 2024 VS 2031

1.6.2 Global Electronic Toll Collection (ETC) Systems Market Size by Region, (2020-2031)

1.6.3 North America Electronic Toll Collection (ETC) Systems Market Size and Prospect (2020-2031)

1.6.4 Europe Electronic Toll Collection (ETC) Systems Market Size and Prospect (2020-2031)

1.6.5 Asia-Pacific Electronic Toll Collection (ETC) Systems Market Size and Prospect (2020-2031)

1.6.6 South America Electronic Toll Collection (ETC) Systems Market Size and Prospect (2020-2031)

1.6.7 Middle East & Africa Electronic Toll Collection (ETC) Systems Market Size and Prospect (2020-2031)

2 COMPANY PROFILES

2.1 Kapsch Trafficom AG

2.1.1 Kapsch Trafficom AG Details

2.1.2 Kapsch Trafficom AG Major Business

2.1.3 Kapsch Trafficom AG Electronic Toll Collection (ETC) Systems Product and Solutions

2.1.4 Kapsch Trafficom AG Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Kapsch Trafficom AG Recent Developments and Future Plans

2.2 Jiangsu Tongxingbao Intelligent Transportation Technology

2.2.1 Jiangsu Tongxingbao Intelligent Transportation Technology Details

2.2.2 Jiangsu Tongxingbao Intelligent Transportation Technology Major Business

2.2.3 Jiangsu Tongxingbao Intelligent Transportation Technology Electronic Toll Collection (ETC) Systems Product and Solutions

2.2.4 Jiangsu Tongxingbao Intelligent Transportation Technology Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

2.2.5 Jiangsu Tongxingbao Intelligent Transportation Technology Recent Developments and Future Plans

2.3 Shenzhen Genvict Technologies

2.3.1 Shenzhen Genvict Technologies Details

2.3.2 Shenzhen Genvict Technologies Major Business

2.3.3 Shenzhen Genvict Technologies Electronic Toll Collection (ETC) Systems Product and Solutions

2.3.4 Shenzhen Genvict Technologies Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

2.3.5 Shenzhen Genvict Technologies Recent Developments and Future Plans

2.4 Q-Free

2.4.1 Q-Free Details

2.4.2 Q-Free Major Business

2.4.3 Q-Free Electronic Toll Collection (ETC) Systems Product and Solutions

2.4.4 Q-Free Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

2.4.5 Q-Free Recent Developments and Future Plans

2.5 Cubic Transportation Systems, Inc.

2.5.1 Cubic Transportation Systems, Inc. Details

2.5.2 Cubic Transportation Systems, Inc. Major Business

2.5.3 Cubic Transportation Systems, Inc. Electronic Toll Collection (ETC) Systems Product and Solutions

2.5.4 Cubic Transportation Systems, Inc. Electronic Toll Collection (ETC) Systems

Revenue, Gross Margin and Market Share (2020-2025)

2.5.5 Cubic Transportation Systems, Inc. Recent Developments and Future Plans

2.6 Transcore

2.6.1 Transcore Details

2.6.2 Transcore Major Business

2.6.3 Transcore Electronic Toll Collection (ETC) Systems Product and Solutions

2.6.4 Transcore Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

2.6.5 Transcore Recent Developments and Future Plans

2.7 TRMI

2.7.1 TRMI Details

2.7.2 TRMI Major Business

2.7.3 TRMI Electronic Toll Collection (ETC) Systems Product and Solutions

2.7.4 TRMI Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

2.7.5 TRMI Recent Developments and Future Plans

2.8 Metro Infrasy

2.8.1 Metro Infrasy Details

2.8.2 Metro Infrasy Major Business

2.8.3 Metro Infrasy Electronic Toll Collection (ETC) Systems Product and Solutions

2.8.4 Metro Infrasy Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Metro Infrasy Recent Developments and Future Plans

2.9 Transpeed

2.9.1 Transpeed Details

2.9.2 Transpeed Major Business

2.9.3 Transpeed Electronic Toll Collection (ETC) Systems Product and Solutions

2.9.4 Transpeed Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 Transpeed Recent Developments and Future Plans

2.10 Beijing Juli Science&Technology

2.10.1 Beijing Juli Science&Technology Details

2.10.2 Beijing Juli Science&Technology Major Business

2.10.3 Beijing Juli Science&Technology Electronic Toll Collection (ETC) Systems Product and Solutions

2.10.4 Beijing Juli Science&Technology Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 Beijing Juli Science&Technology Recent Developments and Future Plans

2.11 Vanjee Technology

- 2.11.1 Vanjee Technology Details
- 2.11.2 Vanjee Technology Major Business
- 2.11.3 Vanjee Technology Electronic Toll Collection (ETC) Systems Product and Solutions
- 2.11.4 Vanjee Technology Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)
- 2.11.5 Vanjee Technology Recent Developments and Future Plans
- 2.12 Shenzhen University of Technology Xinlian Technology
 - 2.12.1 Shenzhen University of Technology Xinlian Technology Details
 - 2.12.2 Shenzhen University of Technology Xinlian Technology Major Business
 - 2.12.3 Shenzhen University of Technology Xinlian Technology Electronic Toll Collection (ETC) Systems Product and Solutions
 - 2.12.4 Shenzhen University of Technology Xinlian Technology Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)
 - 2.12.5 Shenzhen University of Technology Xinlian Technology Recent Developments and Future Plans
- 2.13 Chenggu Technology
 - 2.13.1 Chenggu Technology Details
 - 2.13.2 Chenggu Technology Major Business
 - 2.13.3 Chenggu Technology Electronic Toll Collection (ETC) Systems Product and Solutions
 - 2.13.4 Chenggu Technology Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)
 - 2.13.5 Chenggu Technology Recent Developments and Future Plans
- 2.14 Chongqing Tongyu Technology
 - 2.14.1 Chongqing Tongyu Technology Details
 - 2.14.2 Chongqing Tongyu Technology Major Business
 - 2.14.3 Chongqing Tongyu Technology Electronic Toll Collection (ETC) Systems Product and Solutions
 - 2.14.4 Chongqing Tongyu Technology Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)
 - 2.14.5 Chongqing Tongyu Technology Recent Developments and Future Plans
- 2.15 Jietong Technology
 - 2.15.1 Jietong Technology Details
 - 2.15.2 Jietong Technology Major Business
 - 2.15.3 Jietong Technology Electronic Toll Collection (ETC) Systems Product and Solutions
 - 2.15.4 Jietong Technology Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)

- 2.15.5 Jietong Technology Recent Developments and Future Plans
- 2.16 Beijing Sutong Technology
 - 2.16.1 Beijing Sutong Technology Details
 - 2.16.2 Beijing Sutong Technology Major Business
 - 2.16.3 Beijing Sutong Technology Electronic Toll Collection (ETC) Systems Product and Solutions
 - 2.16.4 Beijing Sutong Technology Electronic Toll Collection (ETC) Systems Revenue, Gross Margin and Market Share (2020-2025)
 - 2.16.5 Beijing Sutong Technology Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

- 3.1 Global Electronic Toll Collection (ETC) Systems Revenue and Share by Players (2020-2025)
- 3.2 Market Share Analysis (2024)
 - 3.2.1 Market Share of Electronic Toll Collection (ETC) Systems by Company Revenue
 - 3.2.2 Top 3 Electronic Toll Collection (ETC) Systems Players Market Share in 2024
 - 3.2.3 Top 6 Electronic Toll Collection (ETC) Systems Players Market Share in 2024
- 3.3 Electronic Toll Collection (ETC) Systems Market: Overall Company Footprint Analysis
 - 3.3.1 Electronic Toll Collection (ETC) Systems Market: Region Footprint
 - 3.3.2 Electronic Toll Collection (ETC) Systems Market: Company Product Type Footprint
 - 3.3.3 Electronic Toll Collection (ETC) Systems Market: Company Product Application Footprint
- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY TYPE

- 4.1 Global Electronic Toll Collection (ETC) Systems Consumption Value and Market Share by Type (2020-2025)
- 4.2 Global Electronic Toll Collection (ETC) Systems Market Forecast by Type (2026-2031)

5 MARKET SIZE SEGMENT BY APPLICATION

- 5.1 Global Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Application (2020-2025)

5.2 Global Electronic Toll Collection (ETC) Systems Market Forecast by Application (2026-2031)

6 NORTH AMERICA

6.1 North America Electronic Toll Collection (ETC) Systems Consumption Value by Type (2020-2031)

6.2 North America Electronic Toll Collection (ETC) Systems Market Size by Application (2020-2031)

6.3 North America Electronic Toll Collection (ETC) Systems Market Size by Country

6.3.1 North America Electronic Toll Collection (ETC) Systems Consumption Value by Country (2020-2031)

6.3.2 United States Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

6.3.3 Canada Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

6.3.4 Mexico Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

7 EUROPE

7.1 Europe Electronic Toll Collection (ETC) Systems Consumption Value by Type (2020-2031)

7.2 Europe Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2031)

7.3 Europe Electronic Toll Collection (ETC) Systems Market Size by Country

7.3.1 Europe Electronic Toll Collection (ETC) Systems Consumption Value by Country (2020-2031)

7.3.2 Germany Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

7.3.3 France Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

7.3.4 United Kingdom Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

7.3.5 Russia Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

7.3.6 Italy Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

8 ASIA-PACIFIC

8.1 Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value by Type (2020-2031)

8.2 Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2031)

8.3 Asia-Pacific Electronic Toll Collection (ETC) Systems Market Size by Region

8.3.1 Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value by Region (2020-2031)

8.3.2 China Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

8.3.3 Japan Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

8.3.4 South Korea Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

8.3.5 India Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

8.3.6 Southeast Asia Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

8.3.7 Australia Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

9 SOUTH AMERICA

9.1 South America Electronic Toll Collection (ETC) Systems Consumption Value by Type (2020-2031)

9.2 South America Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2031)

9.3 South America Electronic Toll Collection (ETC) Systems Market Size by Country

9.3.1 South America Electronic Toll Collection (ETC) Systems Consumption Value by Country (2020-2031)

9.3.2 Brazil Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

9.3.3 Argentina Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value

by Type (2020-2031)

10.2 Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2031)

10.3 Middle East & Africa Electronic Toll Collection (ETC) Systems Market Size by Country

10.3.1 Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value by Country (2020-2031)

10.3.2 Turkey Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

10.3.3 Saudi Arabia Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

10.3.4 UAE Electronic Toll Collection (ETC) Systems Market Size and Forecast (2020-2031)

11 MARKET DYNAMICS

11.1 Electronic Toll Collection (ETC) Systems Market Drivers

11.2 Electronic Toll Collection (ETC) Systems Market Restraints

11.3 Electronic Toll Collection (ETC) Systems Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Electronic Toll Collection (ETC) Systems Industry Chain

12.2 Electronic Toll Collection (ETC) Systems Upstream Analysis

12.3 Electronic Toll Collection (ETC) Systems Midstream Analysis

12.4 Electronic Toll Collection (ETC) Systems Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Electronic Toll Collection (ETC) Systems Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Electronic Toll Collection (ETC) Systems Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Global Electronic Toll Collection (ETC) Systems Consumption Value by Region (2020-2025) & (USD Million)

Table 4. Global Electronic Toll Collection (ETC) Systems Consumption Value by Region (2026-2031) & (USD Million)

Table 5. Kapsch Trafficom AG Company Information, Head Office, and Major Competitors

Table 6. Kapsch Trafficom AG Major Business

Table 7. Kapsch Trafficom AG Electronic Toll Collection (ETC) Systems Product and Solutions

Table 8. Kapsch Trafficom AG Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 9. Kapsch Trafficom AG Recent Developments and Future Plans

Table 10. Jiangsu Tongxingbao Intelligent Transportation Technology Company Information, Head Office, and Major Competitors

Table 11. Jiangsu Tongxingbao Intelligent Transportation Technology Major Business

Table 12. Jiangsu Tongxingbao Intelligent Transportation Technology Electronic Toll Collection (ETC) Systems Product and Solutions

Table 13. Jiangsu Tongxingbao Intelligent Transportation Technology Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 14. Jiangsu Tongxingbao Intelligent Transportation Technology Recent Developments and Future Plans

Table 15. Shenzhen Genvict Technologies Company Information, Head Office, and Major Competitors

Table 16. Shenzhen Genvict Technologies Major Business

Table 17. Shenzhen Genvict Technologies Electronic Toll Collection (ETC) Systems Product and Solutions

Table 18. Shenzhen Genvict Technologies Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 19. Q-Free Company Information, Head Office, and Major Competitors

Table 20. Q-Free Major Business

Table 21. Q-Free Electronic Toll Collection (ETC) Systems Product and Solutions
Table 22. Q-Free Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 23. Q-Free Recent Developments and Future Plans
Table 24. Cubic Transportation Systems, Inc. Company Information, Head Office, and Major Competitors
Table 25. Cubic Transportation Systems, Inc. Major Business
Table 26. Cubic Transportation Systems, Inc. Electronic Toll Collection (ETC) Systems Product and Solutions
Table 27. Cubic Transportation Systems, Inc. Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 28. Cubic Transportation Systems, Inc. Recent Developments and Future Plans
Table 29. Transcore Company Information, Head Office, and Major Competitors
Table 30. Transcore Major Business
Table 31. Transcore Electronic Toll Collection (ETC) Systems Product and Solutions
Table 32. Transcore Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 33. Transcore Recent Developments and Future Plans
Table 34. TRMI Company Information, Head Office, and Major Competitors
Table 35. TRMI Major Business
Table 36. TRMI Electronic Toll Collection (ETC) Systems Product and Solutions
Table 37. TRMI Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 38. TRMI Recent Developments and Future Plans
Table 39. Metro Infrasyss Company Information, Head Office, and Major Competitors
Table 40. Metro Infrasyss Major Business
Table 41. Metro Infrasyss Electronic Toll Collection (ETC) Systems Product and Solutions
Table 42. Metro Infrasyss Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 43. Metro Infrasyss Recent Developments and Future Plans
Table 44. Transpeed Company Information, Head Office, and Major Competitors
Table 45. Transpeed Major Business
Table 46. Transpeed Electronic Toll Collection (ETC) Systems Product and Solutions
Table 47. Transpeed Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 48. Transpeed Recent Developments and Future Plans
Table 49. Beijing Juli Science&Technology Company Information, Head Office, and Major Competitors

Table 50. Beijing Juli Science&Technology Major Business
Table 51. Beijing Juli Science&Technology Electronic Toll Collection (ETC) Systems Product and Solutions
Table 52. Beijing Juli Science&Technology Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 53. Beijing Juli Science&Technology Recent Developments and Future Plans
Table 54. Vanjee Technology Company Information, Head Office, and Major Competitors
Table 55. Vanjee Technology Major Business
Table 56. Vanjee Technology Electronic Toll Collection (ETC) Systems Product and Solutions
Table 57. Vanjee Technology Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 58. Vanjee Technology Recent Developments and Future Plans
Table 59. Shenzhen University of Technology Xinlian Technology Company Information, Head Office, and Major Competitors
Table 60. Shenzhen University of Technology Xinlian Technology Major Business
Table 61. Shenzhen University of Technology Xinlian Technology Electronic Toll Collection (ETC) Systems Product and Solutions
Table 62. Shenzhen University of Technology Xinlian Technology Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 63. Shenzhen University of Technology Xinlian Technology Recent Developments and Future Plans
Table 64. Chenggu Technology Company Information, Head Office, and Major Competitors
Table 65. Chenggu Technology Major Business
Table 66. Chenggu Technology Electronic Toll Collection (ETC) Systems Product and Solutions
Table 67. Chenggu Technology Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 68. Chenggu Technology Recent Developments and Future Plans
Table 69. Chongqing Tongyu Technology Company Information, Head Office, and Major Competitors
Table 70. Chongqing Tongyu Technology Major Business
Table 71. Chongqing Tongyu Technology Electronic Toll Collection (ETC) Systems Product and Solutions
Table 72. Chongqing Tongyu Technology Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 73. Chongqing Tongyu Technology Recent Developments and Future Plans

Table 74. Jietong Technology Company Information, Head Office, and Major Competitors

Table 75. Jietong Technology Major Business

Table 76. Jietong Technology Electronic Toll Collection (ETC) Systems Product and Solutions

Table 77. Jietong Technology Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 78. Jietong Technology Recent Developments and Future Plans

Table 79. Beijing Sutong Technology Company Information, Head Office, and Major Competitors

Table 80. Beijing Sutong Technology Major Business

Table 81. Beijing Sutong Technology Electronic Toll Collection (ETC) Systems Product and Solutions

Table 82. Beijing Sutong Technology Electronic Toll Collection (ETC) Systems Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 83. Beijing Sutong Technology Recent Developments and Future Plans

Table 84. Global Electronic Toll Collection (ETC) Systems Revenue (USD Million) by Players (2020-2025)

Table 85. Global Electronic Toll Collection (ETC) Systems Revenue Share by Players (2020-2025)

Table 86. Breakdown of Electronic Toll Collection (ETC) Systems by Company Type (Tier 1, Tier 2, and Tier 3)

Table 87. Market Position of Players in Electronic Toll Collection (ETC) Systems, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 88. Head Office of Key Electronic Toll Collection (ETC) Systems Players

Table 89. Electronic Toll Collection (ETC) Systems Market: Company Product Type Footprint

Table 90. Electronic Toll Collection (ETC) Systems Market: Company Product Application Footprint

Table 91. Electronic Toll Collection (ETC) Systems New Market Entrants and Barriers to Market Entry

Table 92. Electronic Toll Collection (ETC) Systems Mergers, Acquisition, Agreements, and Collaborations

Table 93. Global Electronic Toll Collection (ETC) Systems Consumption Value (USD Million) by Type (2020-2025)

Table 94. Global Electronic Toll Collection (ETC) Systems Consumption Value Share by Type (2020-2025)

Table 95. Global Electronic Toll Collection (ETC) Systems Consumption Value Forecast

by Type (2026-2031)

Table 96. Global Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2025)

Table 97. Global Electronic Toll Collection (ETC) Systems Consumption Value Forecast by Application (2026-2031)

Table 98. North America Electronic Toll Collection (ETC) Systems Consumption Value by Type (2020-2025) & (USD Million)

Table 99. North America Electronic Toll Collection (ETC) Systems Consumption Value by Type (2026-2031) & (USD Million)

Table 100. North America Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2025) & (USD Million)

Table 101. North America Electronic Toll Collection (ETC) Systems Consumption Value by Application (2026-2031) & (USD Million)

Table 102. North America Electronic Toll Collection (ETC) Systems Consumption Value by Country (2020-2025) & (USD Million)

Table 103. North America Electronic Toll Collection (ETC) Systems Consumption Value by Country (2026-2031) & (USD Million)

Table 104. Europe Electronic Toll Collection (ETC) Systems Consumption Value by Type (2020-2025) & (USD Million)

Table 105. Europe Electronic Toll Collection (ETC) Systems Consumption Value by Type (2026-2031) & (USD Million)

Table 106. Europe Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2025) & (USD Million)

Table 107. Europe Electronic Toll Collection (ETC) Systems Consumption Value by Application (2026-2031) & (USD Million)

Table 108. Europe Electronic Toll Collection (ETC) Systems Consumption Value by Country (2020-2025) & (USD Million)

Table 109. Europe Electronic Toll Collection (ETC) Systems Consumption Value by Country (2026-2031) & (USD Million)

Table 110. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value by Type (2020-2025) & (USD Million)

Table 111. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value by Type (2026-2031) & (USD Million)

Table 112. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2025) & (USD Million)

Table 113. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value by Application (2026-2031) & (USD Million)

Table 114. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value by Region (2020-2025) & (USD Million)

Table 115. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value by Region (2026-2031) & (USD Million)

Table 116. South America Electronic Toll Collection (ETC) Systems Consumption Value by Type (2020-2025) & (USD Million)

Table 117. South America Electronic Toll Collection (ETC) Systems Consumption Value by Type (2026-2031) & (USD Million)

Table 118. South America Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2025) & (USD Million)

Table 119. South America Electronic Toll Collection (ETC) Systems Consumption Value by Application (2026-2031) & (USD Million)

Table 120. South America Electronic Toll Collection (ETC) Systems Consumption Value by Country (2020-2025) & (USD Million)

Table 121. South America Electronic Toll Collection (ETC) Systems Consumption Value by Country (2026-2031) & (USD Million)

Table 122. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value by Type (2020-2025) & (USD Million)

Table 123. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value by Type (2026-2031) & (USD Million)

Table 124. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value by Application (2020-2025) & (USD Million)

Table 125. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value by Application (2026-2031) & (USD Million)

Table 126. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value by Country (2020-2025) & (USD Million)

Table 127. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value by Country (2026-2031) & (USD Million)

Table 128. Global Key Players of Electronic Toll Collection (ETC) Systems Upstream (Raw Materials)

Table 129. Global Electronic Toll Collection (ETC) Systems Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Electronic Toll Collection (ETC) Systems Picture
- Figure 2. Global Electronic Toll Collection (ETC) Systems Consumption Value by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Type in 2024
- Figure 4. Vehicle Automatic Understanding System
- Figure 5. Short Range Communication
- Figure 6. Global Position Finding Satellite System
- Figure 7. Global Electronic Toll Collection (ETC) Systems Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 8. Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Application in 2024
- Figure 9. Highway Picture
- Figure 10. Urban Picture
- Figure 11. Others Picture
- Figure 12. Global Electronic Toll Collection (ETC) Systems Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 13. Global Electronic Toll Collection (ETC) Systems Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 14. Global Market Electronic Toll Collection (ETC) Systems Consumption Value (USD Million) Comparison by Region (2020 VS 2024 VS 2031)
- Figure 15. Global Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Region (2020-2031)
- Figure 16. Global Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Region in 2024
- Figure 17. North America Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)
- Figure 18. Europe Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)
- Figure 19. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)
- Figure 20. South America Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)
- Figure 21. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 22. Company Three Recent Developments and Future Plans

Figure 23. Global Electronic Toll Collection (ETC) Systems Revenue Share by Players in 2024

Figure 24. Electronic Toll Collection (ETC) Systems Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2024

Figure 25. Market Share of Electronic Toll Collection (ETC) Systems by Player Revenue in 2024

Figure 26. Top 3 Electronic Toll Collection (ETC) Systems Players Market Share in 2024

Figure 27. Top 6 Electronic Toll Collection (ETC) Systems Players Market Share in 2024

Figure 28. Global Electronic Toll Collection (ETC) Systems Consumption Value Share by Type (2020-2025)

Figure 29. Global Electronic Toll Collection (ETC) Systems Market Share Forecast by Type (2026-2031)

Figure 30. Global Electronic Toll Collection (ETC) Systems Consumption Value Share by Application (2020-2025)

Figure 31. Global Electronic Toll Collection (ETC) Systems Market Share Forecast by Application (2026-2031)

Figure 32. North America Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Type (2020-2031)

Figure 33. North America Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Application (2020-2031)

Figure 34. North America Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Country (2020-2031)

Figure 35. United States Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 36. Canada Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 37. Mexico Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 38. Europe Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Type (2020-2031)

Figure 39. Europe Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Application (2020-2031)

Figure 40. Europe Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Country (2020-2031)

Figure 41. Germany Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 42. France Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 43. United Kingdom Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 44. Russia Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 45. Italy Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 46. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Type (2020-2031)

Figure 47. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Application (2020-2031)

Figure 48. Asia-Pacific Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Region (2020-2031)

Figure 49. China Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 50. Japan Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 51. South Korea Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 52. India Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 53. Southeast Asia Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 54. Australia Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 55. South America Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Type (2020-2031)

Figure 56. South America Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Application (2020-2031)

Figure 57. South America Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Country (2020-2031)

Figure 58. Brazil Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 59. Argentina Electronic Toll Collection (ETC) Systems Consumption Value (2020-2031) & (USD Million)

Figure 60. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption Value Market Share by Type (2020-2031)

Figure 61. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption

Value Market Share by Application (2020-2031)

Figure 62. Middle East & Africa Electronic Toll Collection (ETC) Systems Consumption

Value Market Share by Country (2020-2031)

Figure 63. Turkey Electronic Toll Collection (ETC) Systems Consumption Value
(2020-2031) & (USD Million)

Figure 64. Saudi Arabia Electronic Toll Collection (ETC) Systems Consumption Value
(2020-2031) & (USD Million)

Figure 65. UAE Electronic Toll Collection (ETC) Systems Consumption Value
(2020-2031) & (USD Million)

Figure 66. Electronic Toll Collection (ETC) Systems Market Drivers

Figure 67. Electronic Toll Collection (ETC) Systems Market Restraints

Figure 68. Electronic Toll Collection (ETC) Systems Market Trends

Figure 69. Porters Five Forces Analysis

Figure 70. Electronic Toll Collection (ETC) Systems Industrial Chain

Figure 71. Methodology

Figure 72. Research Process and Data Source

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