

Global Electronic Toll Collection (ECT) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Electronic Toll Collection (ECT) market size was valued at US\$ 2553 million in 2025 and is forecast to a readjusted size of US\$ 4510 million by 2032 with a CAGR of 8.0% during review period.

In 2025, global Electronic Toll Collection (ECT) production reached approximately 554 k units, with an average global market price of around US\$ 4,478 per unit. Gross margin is about 48%. The cost is 2,328 usd, the production is 700 k units. Electronic Toll Collection (ETC) is an automated toll payment system that allows vehicles to pass through toll stations, highways, bridges, tunnels, and parking facilities without stopping. It uses technologies such as RFID, DSRC, ANPR, sensors, and onboard units to automatically identify vehicles, calculate tolls, and process payments. ETC systems help improve traffic flow, reduce congestion, lower fuel consumption, and minimize labor costs for toll operators.

Expansion of Free-flow and Barrier-free Tolling

More countries are shifting from traditional toll booths to free-flow and barrier-free tolling systems that allow vehicles to pass without stopping. This helps reduce congestion, shorten travel time, and improve highway efficiency.

Greater Use of ANPR, RFID, and AI Technologies

Electronic toll collection systems are increasingly integrating ANPR, RFID, AI image recognition, and vehicle classification technologies to improve accuracy, reduce fraud,

and support multi-lane tolling.

Growth of Mobile Payment and Digital Platforms

ETC systems are increasingly linked with mobile apps, e-wallets, QR code payments, and cloud platforms. This allows users to manage accounts, pay tolls, and receive real-time notifications more conveniently.

Integration with Smart Transportation and Smart City Systems

Future ETC systems will become more connected with smart city infrastructure, traffic management platforms, vehicle tracking systems, and congestion charging programs. This integration will improve transportation efficiency and support more advanced road pricing models.

This report is a detailed and comprehensive analysis for global Electronic Toll Collection (ETC) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Technology 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) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Electronic Toll Collection (ETC) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Electronic Toll Collection (ETC) market size and forecasts, by Technology and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Electronic Toll Collection (ETC) market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 (ECT)

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 (ECT) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Conduent, TransCore, Q-Free, Neology, Cubic Corporation, Siemens Mobility, Iteris, Jenoptik, Thales, Indra Sistemas, etc.

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

Market Segmentation

Electronic Toll Collection (ECT) market is split by Technology and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Technology, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Technology

Automatic Vehicle Identification (AVI)

Automatic Vehicle Classification (AVC)

Dedicated Short Communication

Video Enforcement System

Others

Market segment by Charging

Prepaid Tolling System

Postpaid Tolling System

Mobile Payment Tolling System

Market segment by Technology

RFID Toll Collection System

DSRC Toll Collection System

ANPR License Plate Recognition Toll Collection System

Others

Market segment by Application

Highway Operators

Government Transportation Authorities

Toll Road Concessionaires

Smart City Operators

Major players covered

Conduent

TransCore

Q-Free

Neology

Cubic Corporation

Siemens Mobility

Iteris

Jenoptik

Thales

Indra Sistemas

Tecsidel

Raytheon

Mitsubishi Heavy Industries

Hikvision

Dahua Technology

VanJee Technology

Genvict Technologies

Shutoko

Kapsch

VanJee Technology Co., Ltd.

Shenzhen Genvict Technologies Co., Ltd.

Beijing Juli Science and Technology Co., Ltd.

Gosunch Technology Group Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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

Chapter 2, to profile the top manufacturers of Electronic Toll Collection (ETC), with price, sales quantity, revenue, and global market share of Electronic Toll Collection (ETC) from 2021 to 2026.

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

Chapter 4, the Electronic Toll Collection (ETC) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Technology and by Application, with sales market share and growth rate by Technology, by Application, from 2021 to

2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Electronic Toll Collection (ECT) market forecast, by regions, by Technology, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Electronic Toll Collection (ECT).

Chapter 14 and 15, to describe Electronic Toll Collection (ECT) sales channel, distributors, customers, research findings and conclusion.

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