

Automotive Electronic Control System Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

<https://marketpublishers.com/r/A39F744359E7EN.html>

Date: January 2025

Pages: 93

Price: US\$ 3,200.00 (Single User License)

ID: A39F744359E7EN

Abstracts

Automotive Electronic Control System Market Overview

The automotive electronic control system market is experiencing significant growth as advancements in vehicle safety, automation, and electrification continue to reshape the automotive industry. Automotive electronic control systems, which include key technologies like Anti-Skid Brake Systems (ABS), Electronically Controlled Braking Systems (EBS), and Electronic Stability Controllers (ESC), are becoming essential in improving vehicle performance, safety, and overall driving experience. The market is expected to grow at a compound annual growth rate (CAGR) of 7% to 9% during the forecast period, driven by the increasing adoption of advanced driver assistance systems (ADAS) and rising demand for safer, more efficient vehicles.

Market Size

The automotive electronic control system market is poised for substantial growth as both regulatory standards and consumer expectations drive demand for more advanced and reliable vehicle safety systems. The market is anticipated to grow at a CAGR of 7% to 9% over the next several years, with substantial contributions from passenger vehicles, commercial vehicles, and heavy-duty vehicles. The growing implementation of advanced safety technologies, such as AEBS and EPB, is expected to fuel market growth further.

Market Share & Trends Analysis

By Application

The automotive electronic control system market is segmented by various vehicle types, each contributing to overall demand:

Passenger Vehicles: Passenger vehicles represent the largest segment in the automotive electronic control system market, driven by the growing demand for advanced safety features and automation in everyday vehicles. This segment is expected to grow at a CAGR of 6% to 8%, as consumers increasingly prioritize vehicle safety and convenience features like AEBS, ESC, and EPB.

Light Commercial Vehicles: The demand for electronic control systems in light commercial vehicles (LCVs) is also expected to increase due to their widespread adoption in logistics, transportation, and service industries. This segment is projected to grow at a CAGR of 5% to 7%, driven by increasing safety regulations and the demand for improved vehicle stability and performance.

Heavy Commercial Vehicles: Heavy commercial vehicles, including trucks and buses, are adopting electronic control systems such as ABS, ESC, and AEBS to comply with stricter safety regulations and improve operational efficiency. This segment is anticipated to grow at a CAGR of 8% to 10%, as regulations such as autonomous driving and enhanced safety standards become more prevalent in the industry.

By Product Type

The automotive electronic control system market is further divided by product type, each serving a unique role in enhancing vehicle safety and performance:

Anti-Skid Brake System (ABS): ABS is a critical component in modern vehicles to prevent wheel lock-up and enhance safety during braking. The ABS segment is projected to grow at a CAGR of 7% to 9%, as it is a mandatory feature in many regions and is increasingly incorporated into mid-range and premium vehicles.

Electronically Controlled Braking System (EBS): EBS is becoming more common in commercial vehicles for improving vehicle stability and reducing stopping distances. The EBS segment is expected to grow at a CAGR of 6% to 8%, especially as it is integrated into heavy-duty trucks and buses.

Advanced Emergency Braking System (AEBS): AEBS is gaining traction as a vital safety feature to prevent or mitigate collisions in emergencies. This segment is forecast to grow at a CAGR of 8% to 10%, driven by the increasing adoption of ADAS technologies in both passenger and commercial vehicles.

Electronic Stability Controller (ESC): ESC systems help prevent vehicle skidding and rollovers, and their integration is becoming mandatory in many countries. The ESC segment is anticipated to grow at a CAGR of 7% to 9%, as more vehicles are equipped with this system to enhance safety and comply with regulatory standards.

Electrical Park Brake (EPB): EPB systems, which replace traditional handbrakes with electronic controls, are increasingly being adopted in passenger and commercial vehicles for convenience and space-saving benefits. This segment is expected to grow at a CAGR of 6% to 8%, as the demand for more compact and efficient vehicle designs rises.

By Region

The automotive electronic control system market is geographically diverse, with varying growth rates and adoption levels across regions:

North America: North America is a key market for automotive electronic control systems, particularly in light commercial and passenger vehicles. The region is expected to grow at a CAGR of 6% to 8%, driven by stringent safety regulations and the increasing incorporation of advanced safety technologies in vehicles.

Europe: Europe is another prominent market for automotive electronic control systems, particularly in heavy commercial vehicles. The region is projected to grow at a CAGR of 5% to 7%, with rising demand for safer, more efficient vehicles and increasing adoption of AEBS and ESC systems in commercial fleets.

Asia-Pacific: The Asia-Pacific region is expected to dominate the automotive electronic control system market, driven by the large-scale production and adoption of passenger and commercial vehicles in countries like China, Japan, and India. The region is projected to grow at a CAGR of 8% to 10%, fueled by rising vehicle production, improved safety standards, and increasing demand for advanced control systems in both passenger and commercial vehicles.

Rest of the World: The Rest of the World market is expected to experience moderate growth at a CAGR of 4% to 6%, driven by increasing vehicle production and adoption of safety systems in emerging markets, particularly in South America and Africa.

Key Market Players

The automotive electronic control system market is highly competitive, with several key players leading the development of advanced braking and safety systems. Some of the prominent market players include:

Bosch: Bosch is a major player in the development of automotive electronic control systems, offering a wide range of safety and braking solutions, including ABS, AEBS, and ESC systems.

Continental: Continental provides advanced electronic control systems for both passenger and commercial vehicles, with a focus on automation and safety technologies such as EBS and AEBS.

Knorr-Bremse: Knorr-Bremse specializes in braking and safety systems for commercial vehicles, including advanced braking solutions like EBS and AEBS.

ZF Friedrichshafen AG: ZF is a key supplier of electronic control systems for both passenger and commercial vehicles, with a focus on stability control and braking systems.

Guangzhou Ruili Kormee: This company provides electronic control systems for the automotive industry, with a growing focus on the Chinese market and other regional applications.

VIE SCIENCE AND TECHNOLOGY: VIE Science and Technology is known for providing innovative electronic control systems, particularly in the Asian market.

Bethel Automotive Safety Systems Co. Ltd. (WBTL): Bethel specializes in advanced braking and safety systems, including ABS and ESC solutions for various vehicle types.

Zhejiang Asia-Pacific: This company manufactures electronic control systems

for commercial and passenger vehicles, focusing on expanding its market presence in China and other emerging markets.

Wuhan Youfin: Wuhan Youfin is an emerging player in the automotive electronic control system market, offering advanced braking and stability control technologies for both passenger and commercial vehicles.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

5.6 Covid-19 Impact

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Automotive Electronic Control System Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST AUTOMOTIVE ELECTRONIC CONTROL SYSTEM MARKET IN NORTH AMERICA (2020-2030)

8.1 Automotive Electronic Control System Market Size

8.2 Automotive Electronic Control System Market by End Use

8.3 Competition by Players/Suppliers

8.4 Automotive Electronic Control System Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST AUTOMOTIVE ELECTRONIC CONTROL SYSTEM MARKET IN SOUTH AMERICA (2020-2030)

9.1 Automotive Electronic Control System Market Size

9.2 Automotive Electronic Control System Market by End Use

9.3 Competition by Players/Suppliers

9.4 Automotive Electronic Control System Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST AUTOMOTIVE ELECTRONIC CONTROL SYSTEM MARKET IN ASIA & PACIFIC (2020-2030)

10.1 Automotive Electronic Control System Market Size

10.2 Automotive Electronic Control System Market by End Use

10.3 Competition by Players/Suppliers

10.4 Automotive Electronic Control System Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

- 10.5.3 Japan
- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST AUTOMOTIVE ELECTRONIC CONTROL SYSTEM MARKET IN EUROPE (2020-2030)

- 11.1 Automotive Electronic Control System Market Size
- 11.2 Automotive Electronic Control System Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Automotive Electronic Control System Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST AUTOMOTIVE ELECTRONIC CONTROL SYSTEM MARKET IN MEA (2020-2030)

- 12.1 Automotive Electronic Control System Market Size
- 12.2 Automotive Electronic Control System Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Automotive Electronic Control System Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL AUTOMOTIVE ELECTRONIC CONTROL

SYSTEM MARKET (2020-2025)

- 13.1 Automotive Electronic Control System Market Size
- 13.2 Automotive Electronic Control System Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Automotive Electronic Control System Market Size by Type

CHAPTER 14 GLOBAL AUTOMOTIVE ELECTRONIC CONTROL SYSTEM MARKET FORECAST (2025-2030)

- 14.1 Automotive Electronic Control System Market Size Forecast
- 14.2 Automotive Electronic Control System Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Automotive Electronic Control System Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

15.1 Bosch

- 15.1.1 Company Profile
- 15.1.2 Main Business and Automotive Electronic Control System Information
- 15.1.3 SWOT Analysis of Bosch
- 15.1.4 Bosch Automotive Electronic Control System Revenue, Gross Margin and Market Share (2020-2025)

15.2 Continental

- 15.2.1 Company Profile
- 15.2.2 Main Business and Automotive Electronic Control System Information
- 15.2.3 SWOT Analysis of Continental
- 15.2.4 Continental Automotive Electronic Control System Revenue, Gross Margin and Market Share (2020-2025)

15.3 Knorr-Bremse

- 15.3.1 Company Profile
- 15.3.2 Main Business and Automotive Electronic Control System Information
- 15.3.3 SWOT Analysis of Knorr-Bremse
- 15.3.4 Knorr-Bremse Automotive Electronic Control System Revenue, Gross Margin and Market Share (2020-2025)

15.4 ZF Friedrichshafen AG

- 15.4.1 Company Profile
- 15.4.2 Main Business and Automotive Electronic Control System Information
- 15.4.3 SWOT Analysis of ZF Friedrichshafen AG

15.4.4 ZF Friedrichshafen AG Automotive Electronic Control System Revenue, Gross Margin and Market Share (2020-2025)

15.5 Guangzhou Ruili Kormee

15.5.1 Company Profile

15.5.2 Main Business and Automotive Electronic Control System Information

15.5.3 SWOT Analysis of Guangzhou Ruili Kormee

15.5.4 Guangzhou Ruili Kormee Automotive Electronic Control System Revenue, Gross Margin and Market Share (2020-2025)

15.6 VIE SCIENCE AND TECHNOLOGY

15.6.1 Company Profile

15.6.2 Main Business and Automotive Electronic Control System Information

15.6.3 SWOT Analysis of VIE SCIENCE AND TECHNOLOGY

15.6.4 VIE SCIENCE AND TECHNOLOGY Automotive Electronic Control System Revenue, Gross Margin and Market Share (2020-2025)

15.7 Bethel Automotive Safety Systems Co. Ltd. (WBTL)

15.7.1 Company Profile

15.7.2 Main Business and Automotive Electronic Control System Information

15.7.3 SWOT Analysis of Bethel Automotive Safety Systems Co. Ltd. (WBTL)

15.7.4 Bethel Automotive Safety Systems Co. Ltd. (WBTL) Automotive Electronic Control System Revenue, Gross Margin and Market Share (2020-2025)

15.8 Zhejiang Asia-Pacific

15.8.1 Company Profile

15.8.2 Main Business and Automotive Electronic Control System Information

15.8.3 SWOT Analysis of Zhejiang Asia-Pacific

15.8.4 Zhejiang Asia-Pacific Automotive Electronic Control System Revenue, Gross Margin and Market Share (2020-2025)

15.9 Wuhan Youfin

15.9.1 Company Profile

15.9.2 Main Business and Automotive Electronic Control System Information

15.9.3 SWOT Analysis of Wuhan Youfin

15.9.4 Wuhan Youfin Automotive Electronic Control System Revenue, Gross Margin and Market Share (2020-2025)

Please ask for sample pages for full companies list

Tables & Figures

TABLES AND FIGURES

Table Abbreviation and Acronyms

Table Research Scope of Automotive Electronic Control System Report

Table Data Sources of Automotive Electronic Control System Report

Table Major Assumptions of Automotive Electronic Control System Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Automotive Electronic Control System Picture

Table Automotive Electronic Control System Classification

Table Automotive Electronic Control System Applications

Table Drivers of Automotive Electronic Control System Market

Table Restraints of Automotive Electronic Control System Market

Table Opportunities of Automotive Electronic Control System Market

Table Threats of Automotive Electronic Control System Market

Table Covid-19 Impact For Automotive Electronic Control System Market

Table Raw Materials Suppliers

Table Different Production Methods of Automotive Electronic Control System

Table Cost Structure Analysis of Automotive Electronic Control System

Table Key End Users

Table Latest News of Automotive Electronic Control System Market

Table Merger and Acquisition

Table Planned/Future Project of Automotive Electronic Control System Market

Table Policy of Automotive Electronic Control System Market

Table 2020-2030 North America Automotive Electronic Control System Market Size

Figure 2020-2030 North America Automotive Electronic Control System Market Size and CAGR

Table 2020-2030 North America Automotive Electronic Control System Market Size by Application

Table 2020-2025 North America Automotive Electronic Control System Key Players Revenue

Table 2020-2025 North America Automotive Electronic Control System Key Players Market Share

Table 2020-2030 North America Automotive Electronic Control System Market Size by Type

Table 2020-2030 United States Automotive Electronic Control System Market Size

Table 2020-2030 Canada Automotive Electronic Control System Market Size

Table 2020-2030 Mexico Automotive Electronic Control System Market Size
Table 2020-2030 South America Automotive Electronic Control System Market Size
Figure 2020-2030 South America Automotive Electronic Control System Market Size and CAGR
Table 2020-2030 South America Automotive Electronic Control System Market Size by Application
Table 2020-2025 South America Automotive Electronic Control System Key Players Revenue
Table 2020-2025 South America Automotive Electronic Control System Key Players Market Share
Table 2020-2030 South America Automotive Electronic Control System Market Size by Type
Table 2020-2030 Brazil Automotive Electronic Control System Market Size
Table 2020-2030 Argentina Automotive Electronic Control System Market Size
Table 2020-2030 Chile Automotive Electronic Control System Market Size
Table 2020-2030 Peru Automotive Electronic Control System Market Size
Table 2020-2030 Asia & Pacific Automotive Electronic Control System Market Size
Figure 2020-2030 Asia & Pacific Automotive Electronic Control System Market Size and CAGR
Table 2020-2030 Asia & Pacific Automotive Electronic Control System Market Size by Application
Table 2020-2025 Asia & Pacific Automotive Electronic Control System Key Players Revenue
Table 2020-2025 Asia & Pacific Automotive Electronic Control System Key Players Market Share
Table 2020-2030 Asia & Pacific Automotive Electronic Control System Market Size by Type
Table 2020-2030 China Automotive Electronic Control System Market Size
Table 2020-2030 India Automotive Electronic Control System Market Size
Table 2020-2030 Japan Automotive Electronic Control System Market Size
Table 2020-2030 South Korea Automotive Electronic Control System Market Size
Table 2020-2030 Southeast Asia Automotive Electronic Control System Market Size
Table 2020-2030 Australia Automotive Electronic Control System Market Size
Table 2020-2030 Europe Automotive Electronic Control System Market Size
Figure 2020-2030 Europe Automotive Electronic Control System Market Size and CAGR
Table 2020-2030 Europe Automotive Electronic Control System Market Size by Application
Table 2020-2025 Europe Automotive Electronic Control System Key Players Revenue

Table 2020-2025 Europe Automotive Electronic Control System Key Players Market Share

Table 2020-2030 Europe Automotive Electronic Control System Market Size by Type

Table 2020-2030 Germany Automotive Electronic Control System Market Size

Table 2020-2030 France Automotive Electronic Control System Market Size

Table 2020-2030 United Kingdom Automotive Electronic Control System Market Size

Table 2020-2030 Italy Automotive Electronic Control System Market Size

Table 2020-2030 Spain Automotive Electronic Control System Market Size

Table 2020-2030 Belgium Automotive Electronic Control System Market Size

Table 2020-2030 Netherlands Automotive Electronic Control System Market Size

Table 2020-2030 Austria Automotive Electronic Control System Market Size

Table 2020-2030 Poland Automotive Electronic Control System Market Size

Table 2020-2030 Russia Automotive Electronic Control System Market Size

Table 2020-2030 MEA Automotive Electronic Control System Market Size

Figure 2020-2030 MEA Automotive Electronic Control System Market Size and CAGR

Table 2020-2030 MEA Automotive Electronic Control System Market Size by Application

Table 2020-2025 MEA Automotive Electronic Control System Key Players Revenue

Table 2020-2025 MEA Automotive Electronic Control System Key Players Market Share

Table 2020-2030 MEA Automotive Electronic Control System Market Size by Type

Table 2020-2030 Egypt Automotive Electronic Control System Market Size

Table 2020-2030 Israel Automotive Electronic Control System Market Size

Table 2020-2030 South Africa Automotive Electronic Control System Market Size

Table 2020-2030 Gulf Cooperation Council Countries Automotive Electronic Control System Market Size

Table 2020-2030 Turkey Automotive Electronic Control System Market Size

Table 2020-2025 Global Automotive Electronic Control System Market Size by Region

Table 2020-2025 Global Automotive Electronic Control System Market Size Share by Region

Table 2020-2025 Global Automotive Electronic Control System Market Size by Application

Table 2020-2025 Global Automotive Electronic Control System Market Share by Application

Table 2020-2025 Global Automotive Electronic Control System Key Vendors Revenue

Figure 2020-2025 Global Automotive Electronic Control System Market Size and Growth Rate

Table 2020-2025 Global Automotive Electronic Control System Key Vendors Market Share

Table 2020-2025 Global Automotive Electronic Control System Market Size by Type

Table 2020-2025 Global Automotive Electronic Control System Market Share by Type

Table 2025-2030 Global Automotive Electronic Control System Market Size by Region

Table 2025-2030 Global Automotive Electronic Control System Market Size Share by Region

Table 2025-2030 Global Automotive Electronic Control System Market Size by Application

Table 2025-2030 Global Automotive Electronic Control System Market Share by Application

Table 2025-2030 Global Automotive Electronic Control System Key Vendors Revenue

Figure 2025-2030 Global Automotive Electronic Control System Market Size and Growth Rate

Table 2025-2030 Global Automotive Electronic Control System Key Vendors Market Share

Table 2025-2030 Global Automotive Electronic Control System Market Size by Type

Table 2025-2030 Automotive Electronic Control System Global Market Share by Type

I would like to order

Product name: Automotive Electronic Control System Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

Product link: <https://marketpublishers.com/r/A39F744359E7EN.html>

Price: US\$ 3,200.00 (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/A39F744359E7EN.html>