

Automotive Safety Electronics Market - Global Outlook and Forecast 2018-2023

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Abstracts

This market research report on the global automotive safety electronics market offers analysis on market size & forecast, market share, industry trends, growth drivers, and vendor analysis. The market study also includes insights on segmentation by product (systems and sensors), by vehicle type (economy cars, luxury cars, and mid-priced cars), and by geography (APAC, Europe, North America, Latin America, and MEA).

Automotive Safety Electronics Market - Overview

The increasing proliferation of automotive electronics that enable centralized control and seamless exchange of data and information between various systems is augmenting the growth of the global automotive safety electronics market. The launch of systems that are designed to enhance user experience and convenience will revolutionize the automotive industry in the global market. The growing demand for connected cars with the growing integration of smartphones and electronic devices will transform the global market. The adoption of advanced features such as telematics, ADAS solutions, digital clusters, and high-end infotainment systems is boosting the demand in the global market. Some of the prominent vendors are developing a new cost-efficient 3D surround view system designed for economy and mid-priced vehicles to attract a wider group of consumers and gain a larger global market share. The innovations in the field of safety systems, infotainment, electrification of engine mechanism, and propulsion technologies will create new investment opportunities for OEMs operating in the global market. The growing applications for semiconductors across hybrid and electric vehicle segments will have a positive impact on the overall development of the global automotive safety electronics market.

Factors such as rapid electrification of vehicles, adoption of connected vehicle concept,

and integration of advanced safety features are expected to boost the demand for these systems in mass mid-segment vehicles in the market. The vendors are introducing new safety electronics systems and solutions to boost their revenues in the global market. The global automotive safety electronics market is anticipated to reach values of approximately \$40 billion by 2023, growing at CAGR of more than 12% during 2017-2023.

Automotive Safety Electronics Market – Dynamics

The growing focus on the electrification of automotive mechanics will lead to the evolution of the global automotive safety electronics market. The increase in government regulations to reduce vehicle emissions and curb environmental pollution is promoting electrification of vehicles in the global market. The top manufacturers are investing in technologies to reduce the weight of vehicles and integrating efficient functioning systems leading to higher fuel efficiency and reducing tailpipe emission. The OEMs are leveraging electronic controls to activated functions such as the braking system, steering control, and throttle control in vehicles launched in the global market. The introduction of electric safety control systems such as anti-lock braking, electric parking brake, and advanced driver assistance systems (ADAS) will boost demand in the market over the next few years. Stringent regulations encourage the exploration of alternative propulsion technologies such as flexible fuel, natural gas engines, hybrid electric and all-electric vehicles and fuel the development in the global automotive safety electronics market.

Automotive Safety Electronics Market - Segmentation

This market research report includes a detailed segmentation of the market by product, vehicle type, and geography.

Automotive Safety Electronics Market – By Product

Sensors to help facilitate ADAS systems in the global automotive safety electronics market during the forecast period

The global automotive safety electronics market by products is divided into systems and sensors. Sensors dominated a portion of the market share in 2017, growing at a CAGR of over 28% during the forecast period. The increasing focus on improving the accuracy rate of sensor solutions will augment the growth of this segment in the global market. Top players are investing in the development of proper distribution and partitioning of system architecture to ensure the efficient and accurate working of sensors in the

industry during the forecast period. The major sensors available in the global market include LiDAR, radar, ultrasonic sensor, and camera units (night vision and other vision). The innovations in camera-based suits will enable proper functioning of ADAS systems such as AEB, LDW, FCW, LKA, LC, TJA, traffic sign recognition (TSR), and intelligent high-beam control (IHC) in the global market. New sensor solutions will be able to evaluate the surroundings in real-time and take necessary action during emergencies. Furthermore, the launch of 3-D lasers and 360-degree high-definition cameras that enable mapping systems will transform the global automotive safety electronics market over the next few years.

Automotive Safety Electronics Market – By Vehicle Type

Premium systems and sensors in luxury cars to boost demand in the global automotive safety electronics

The vehicle type segment in the global automotive safety electronics market is categorized into economy cars, luxury cars, and mid-priced cars. Luxury cars occupied more than half of the market share in 2017, growing at a CAGR of more than 9% during the forecast period. With the advancement in autonomous driving and growing demand for premium safety solutions, the growth of the luxury cars segment is increasing in the global market. Vendors are launching sophisticated systems and sensors to attract a maximum number of consumers in this segment in the global market. The introduction of safety norms to reduce the fatality and injury rate due to road accidents is encouraging the vendors to launch advanced safety technologies in the global market. The introduction of lane departure warning systems (LDWS) and autonomous emergency braking systems (AEBS) will boost the demand in the global automotive safety electronics market. The use of power electronic devices for various safety components such as airbag systems or ECS systems, and tire pressure monitoring systems will transform the global market.

Automotive Safety Electronics Market – By Geography

Demand for electric vehicles in Europe to drive sales in the global automotive safety electronics during the forecast period

The global automotive safety electronics market by geography is segmented into APAC, Europe, North America, Latin America, and MEA. Europe dominated the majority of the market share in 2017, growing at a CAGR more than 12% during the forecast period. The high investment in R&D and the implementation of stringent regulations are driving the growth of the European region in the global market. The growing demand for electric vehicles in countries such as Germany, UK, and France will boost revenues in Europe

over the next few years. The stringent norms imposed by the European Commission and car assessment programs such as Europe New Car Assessment Program (Euro NCAP), mandating the installation of driver assistance and collision avoidance systems will transform the global automotive safety electronics market. Advancement in technology and growing demand for German-made luxury cars will help in propelling the growth of the European region in the global market during the forecast period.

The key countries profiled in the report are:

Germany

China

Japan

South Korea

US

Brazil

Key Vendor Analysis

The global automotive safety electronics market is moderately fragmented, with the top players controlling over 40% of the total market share. The increasing focus on technological development and expansion of product portfolios will intensify the competition in the global market. The increasing threat of infiltration with low-quality products will result in intensified price wars among companies in the global market. The OEMs are competing on the basis of quality, technology, and price in the market. The vendors are expanding their businesses and distribution networks to emerging countries in APAC to sustain the intense competition in the global automotive safety electronics market.

The major vendors in the global market are:

Autoliv

Bosch

Continental AG

Denso

ZF

Other prominent vendors include ADVICS, Aisin Seiki, Aptiv (Delphi Automotive), Gentex, HARMAN, Hella, Hitachi, Hyundai Mobis, Infineon Technologies, Magna International, Mando (Halla Group), Mobileye (Intel), Nidec Elesys, NVIDIA Corporation, NXP Semiconductor, Omnivision, Panasonic, QNX, Renesas Electronics, Texas Instrument, TKJP (Takata), Tokai Rika, Toshiba, Valeo, Velodyne LiDAR, and WABCO.

Key market insights include

1. The analysis of global automotive safety electronics market provides market size and growth rate for the forecast period 2018-2023.
2. It offers comprehensive insights into current industry trends, trend forecast, and growth drivers about the global automotive safety electronics market.
3. The report provides the latest analysis of market share, growth drivers, challenges, and investment opportunities.
4. It offers a complete overview of market segments and the regional outlook of the global automotive safety electronics market.
5. The report offers a detailed overview of the vendor landscape, competitive analysis, and key market strategies to gain competitive advantage.

Report Snapshot

The global automotive safety electronics market size is expected to reach a value of around \$40 billion by 2023, growing at an impressive CAGR of over 12% 2018–2023.

The global automotive safety electronics market is driven by the introduction of safety systems, infotainment, electrification of engine mechanism and propulsion technologies. The increasing awareness towards road safety amongst customers will propel the development of the global market. The market research report provides in-depth market analysis and segmental analysis of the global automotive safety electronics market by product, vehicle type, and geography.

Base Year: 2017

Forecast Year: 2018–2023

The study considers the present scenario of the global automotive safety electronics market and its market dynamics for the period 2018–2023. It covers a detailed overview of various market growth enablers, restraints, and trends. The study covers both the demand and supply sides of the market. It also profiles and analyzes the leading companies and various other prominent companies operating in the market.

Major Vendors in the Automotive Safety Electronics Market

Autoliv

Business Overview

Autoliv in the Global Market

Major Product Offerings

Key Strengths

Key Strategies

Key Opportunities

Bosch

Continental AG

Denso

ZF

Prominent Players in the Automotive Safety Electronics Market

ADVICS

Company Overview

Product Offerings

Key Strategy

Aisin Seiki

Aptiv (Delphi Automotive)

Gentex

HARMAN

Hella

Hitachi

Hyundai Mobis

Infineon Technologies

Magna International

Mando (Halla Group)

Mobileye (Intel)

Nidec Elesys

NVIDIA Corporation

NXP Semiconductor

Omnivision

Panasonic

QNX

Renesas Electronics

Texas Instrument

TKJP (Takata)

Tokai Rika

Toshiba

Valeo

Velodyne LiDAR

WABCO

Market Segmentation by Product

Systems

Sensors

Market Segmentation by Vehicle Type

Economy Cars

Luxury Cars

Mid-Priced Cars

Market Segmentation by Geography

Europe

Germany

APAC

China

Japan

South Korea

North America

US

Latin America

Brazil

MEA

Contents

1 RESEARCH METHODOLOGY

2 RESEARCH OBJECTIVES

3 RESEARCH PROCESS

4 REPORT COVERAGE

4.1 Market Definition

4.2 Base Year

4.3 Scope of Study

4.3.1 Market Segmentation by Product Type

4.3.2 Market Segmentation by Vehicle Type

4.3.3 Market Segmentation by Geography

5 REPORT ASSUMPTIONS & CAVEATS

5.1 Key Caveats

5.2 Inclusions

5.3 Exclusions

5.4 Currency Conversion

5.5 Market Derivation

6 MARKET AT A GLANCE

7 INTRODUCTION

7.1 Overview

7.2 Advanced Driver Assistance Systems (ADAS)

7.3 Macroeconomic Factors Enabling Market Growth

7.3.1 Economic Development

7.3.2 Per Capita GDP in Developing Markets

7.3.3 Rise in Dual-income Households in Developed Markets

8 MARKET DYNAMICS

8.1 Market Growth Enablers

- 8.1.1 Increased Focus on Introducing Safety Solutions
- 8.1.2 Shifting Consumer Preference for Connected and Hybrid Cars
- 8.1.3 Growing Consumer Segment for Affordable Luxury Cars
- 8.1.4 YOY Impact of Market Growth Enablers
- 8.1.5 YOY Impact of Market Growth Enablers on Regions
- 8.2 Market Growth Restraints
 - 8.2.1 Volatility in Raw Material Prices and Increasing Labor Costs
 - 8.2.2 Growing Automotive Cyber-attacks and Cost Trade-offs
 - 8.2.3 Lack of Support Infrastructure for Autonomous Vehicles
 - 8.2.4 YOY Impact of Market Growth Restraints
 - 8.2.5 YOY Impact of Market Growth Restraints on Regions
- 8.3 Market Opportunities & Trends
 - 8.3.1 Growing Electrification of Automotive Mechanics
 - 8.3.2 Introduction of Autonomous Vehicles Concept
 - 8.3.3 Increasing Usage of Advanced Sensors in Automobiles
 - 8.3.4 YOY Impact of Market Opportunities & Trends
 - 8.3.5 YOY Impact of Market Opportunities & Trends on Regions

9 VALUE CHAIN ANALYSIS

- 9.1 Value Chain overview
- 9.2 Value Chain Analysis
 - 9.2.1 Raw Material and Component Suppliers
 - 9.2.2 Automotive Safety Electronics Manufacturers
 - 9.2.3 Distributors and Dealers
 - 9.2.4 Tier-1 Suppliers
 - 9.2.5 OEMs

10 GLOBAL AUTOMOTIVE MARKET

- 10.1 market Overview
 - 10.1.1 Market Size & Forecast

11 GLOBAL AUTOMOTIVE SAFETY ELECTRONICS MARKET

- 11.1 Market Overview
 - 11.1.1 Market Size & Forecast
 - 11.1.2 Introduction of IoT in Automobiles
 - 11.1.3 Innovative Technologies for Automated Driving

- 11.1.4 Growing Global Sales of Passenger Cars
- 11.1.5 Life Cycle of Automotive Electronic Components – 2017 Perspective
- 11.1.6 Factors Affecting Usage of Automotive Electronics
- 11.1.7 Additional Electronic Components in EVs & HEVs
- 11.1.8 Advent of Autonomous Parking System
- 11.1.9 Safety Initiatives by Government and Transport Authorities
- 11.1.10 Increasing Cost Pressure for Vendors
- 11.1.11 Low Acceptance of Autonomous Cars
- 11.1.12 Concerns About Autonomous Driving
- 11.1.13 Urbanization and Dual-income Households
- 11.1.14 Smartphone Penetration Assisting Growth for Connected Cars
- 11.2 Porter's Five Forces Analysis
 - 11.2.1 Threat of New Entrants
 - 11.2.2 Bargaining Power of Suppliers
 - 11.2.3 Bargaining Power of Buyers
 - 11.2.4 Threat of Substitutes
 - 11.2.5 Competitive Rivalry

12 MARKET BY PRODUCT TYPE

- 12.1 Market Overview
- 12.2 Global Automotive Safety Electronics Market BY Systems
 - 12.2.1 Market Size & Forecast
- 12.3 Global Automotive Safety Electronics Market BY Sensors
 - 12.3.1 Market Size and Forecast

13 MARKET BY VEHICLE TYPE

- 13.1 Market Overview
- 13.2 Market Size & Forecast

14 MARKET BY GEOGRAPHICAL SEGMENTATION

- 14.1 Market Overview

15 AUTOMOTIVE SAFETY ELECTRONICS MARKET IN EUROPE

- 15.1 Market Overview
 - 15.1.1 Market Size & Forecast

15.2 Product Segmentation

15.2.1 Market Size & Forecast

15.3 Key Countries

15.3.1 Market Size & Forecast: Germany

15.4 Leading Trend, Enabler, and Restraint

16 AUTOMOTIVE SAFETY ELECTRONICS MARKET IN THE APAC

16.1 Market Overview

16.1.1 Market Size & Forecast

16.1.2 Adoption Rate of Safety Systems by OEMs

16.2 Product Segmentation

16.2.1 Market Size & Forecast

16.3 Key Countries

16.3.1 Market Size & Forecast: China

16.3.2 Market Size & Forecast: Japan

16.3.3 Market Size & Forecast: South Korea

16.4 Leading Trend, Enabler, and Restraint

17 AUTOMOTIVE SAFETY ELECTRONICS MARKET IN NORTH AMERICA

17.1 Market Overview

17.1.1 Market Size & Forecast

17.2 Product Segmentation

17.2.1 Market Size & Forecast

17.3 Key Countries

17.3.1 Market Size & Forecast: US

17.4 Leading Trend, Enabler, and Restraint

18 AUTOMOTIVE SAFETY ELECTRONICS MARKET IN LATIN AMERICA

18.1 Market Overview

18.1.1 Market Size & Forecast

18.2 Product Segmentation

18.2.1 Market Size & Forecast

18.3 Key countries

18.3.1 Market Size & Forecast: Brazil

18.4 Leading Trend, Enabler, and Restraint

19 AUTOMOTIVE SAFETY ELECTRONICS MARKET IN MEA

19.1 Market Overview

19.1.1 Market Size & Forecast

19.2 Product Segmentation

19.2.1 Market Size & Forecast

19.3 Key Countries

19.4 Leading Trend, Enabler, and Restraint

20 COMPETITIVE LANDSCAPE

20.1 Market Overview

20.2 Market Structure and Mapping of Competition

20.2.1 Herfindahl-Hirschman Index

20.3 Market Share Analysis

20.3.1 Overview

21 KEY COMPANY PROFILES

21.1 Autoliv

21.1.1 Business Overview

21.1.2 Autoliv in Global Automotive Safety Electronics Market

21.1.3 Major Product Offerings

21.1.4 Key Strengths

21.1.5 Key Strategies

21.1.6 Key Opportunities

21.2 Bosch

21.2.1 Business Overview

21.2.2 Business Segments

21.2.3 Bosch in Global Automotive Safety Electronics Market

21.2.4 Major Product Offerings

21.2.5 Key Strengths

21.2.6 Key Strategies

21.2.7 Key Opportunities

21.3 Continental

21.3.1 Business Overview

21.3.2 Business Segments

21.3.3 Continental in Global Automotive Safety Electronics Market

21.3.4 Major Product Offerings

- 21.3.5 Key Strengths
- 21.3.6 Key Strategies
- 21.3.7 Key Opportunities

21.4 Denso

- 21.4.1 Business Overview
- 21.4.2 Business Segments
- 21.4.3 Denso in Global Automotive Safety Electronics Market
- 21.4.4 Major Product Offerings
- 21.4.5 Key Strengths
- 21.4.6 Key Strategies
- 21.4.7 Key Opportunities

21.5 ZF

- 21.5.1 Business Overview
- 21.5.2 Business Segments
- 21.5.3 ZF in Global Automotive Safety Electronics Market
- 21.5.4 Major Product Offerings
- 21.5.5 Key Strengths
- 21.5.6 Key Strategies
- 21.5.7 Key Opportunities

22 OTHER PROMINENT VENDORS

22.1 Aptiv (Formerly Delphi Automotive)

- 22.1.1 Company Overview
- 22.1.2 Product Offerings
- 22.1.3 Key Strategy

22.2 Mobileye (Intel)

- 22.2.1 Company Overview
- 22.2.2 Product Offerings
- 22.2.3 Key Strategy

22.3 Valeo

- 22.3.1 Company Overview
- 22.3.2 Product Offerings
- 22.3.3 Key Strategy

22.4 Mando (Halla Group)

- 22.4.1 Company Overview
- 22.4.2 Product Offerings
- 22.4.3 Key Strategy

22.5 Tokai Rika

- 22.5.1 Company Overview
- 22.5.2 Product Offerings
- 22.5.3 Key Strategy
- 22.6 Nidec Elesys
 - 22.6.1 Company Overview
 - 22.6.2 Product Offerings
 - 22.6.3 Key Strategy
- 22.7 Magna International
 - 22.7.1 Company Overview
 - 22.7.2 Product Offerings
 - 22.7.3 Key Strategy
- 22.8 NVIDIA Corporation
 - 22.8.1 Company Overview
 - 22.8.2 Product Offerings
 - 22.8.3 Key Strategy
- 22.9 ADVICS
 - 22.9.1 Company Overview
 - 22.9.2 Product Offerings
 - 22.9.3 Key Strategy

23 REPORT SUMMARY

- 23.1 Key Takeaways
- 23.2 Strategic Recommendation
- 23.3 Qualitative Summary of Global Automotive Safety Electronics Market
- 23.4 Quantitative Summary: Global Automotive Safety Electronics Market
 - 23.4.1 Market by Geography
 - 23.4.2 Market by Product Type
 - 23.4.3 Market by Vehicle Type

24 APPENDIX

- 24.1 Abbreviations

List Of Exhibits

LIST OF EXHIBITS

- Exhibit 1 Segmentation of Global Automotive Safety Electronics Market
- Exhibit 2 Key Geographies Definition
- Exhibit 3 Market Size Calculation Approach 2017
- Exhibit 4 Global Automotive Safety Electronics Market Overview
- Exhibit 5 GDP Growth 2010–2023 (annual % change)
- Exhibit 6 Global GDP Growth 2017 (annual % change)
- Exhibit 7 Dual-income Households in US (1970 vs. 2015)
- Exhibit 8 ADAS Functions in Vehicles
- Exhibit 9 Initiatives by Various Governments to Encourage Safety Systems Using ADAS
- Exhibit 10 Global Connected Cars Market 2015?2023 (\$ billion)
- Exhibit 11 Luxury Vehicle Sales in India 2015?2017 (units)
- Exhibit 12 Volatility in Raw Material Prices of Rubber & Steel in US 2012?2017 (\$ per metric ton)
- Exhibit 13 Changing Prices of Aluminum and Iron Ore in US 2008?2017 (\$ per metric ton)
- Exhibit 14 Growth in Labor Costs in Various Chinese Cities in 2016
- Exhibit 15 Motor Gasoline-based CO2 Emission by Transportation Sector in US (million metric tons)
- Exhibit 16 Electric Vehicle (EV, PHEV, & HEV) Sales in Select Countries 2013–2015
- Exhibit 17 Value Chain Analysis of Global Automotive Safety Electronics Market
- Exhibit 18 Global Automotive Market 2005?2023 (million units)
- Exhibit 19 Global Automotive Safety Electronics Market 2017?2023 (\$ billion)
- Exhibit 20 Growth in Adoption of Electronics Systems: Automotive vis-à-vis Other Industries: CAGR 2015?2023
- Exhibit 21 Passenger Car Sales in Select Economies 2005?2016 (million units)
- Exhibit 22 Life Cycle of Automotive Electrical Components
- Exhibit 23 Factors Influencing Usage of Automotive Electronics
- Exhibit 24 PCB Application Matrix in Automotive Electronics
- Exhibit 25 Evolution of Autonomous Parking System
- Exhibit 26 Safety Initiatives by Governments and Transport Authorities
- Exhibit 27 Global Urban and Rural Human Population 1950?2050 (million)
- Exhibit 28 Increase in Women Workforce in Japan 1985?2014 (million)
- Exhibit 29 Global Mobile Phone Shipments by Type 2010–2020 (billion units)
- Exhibit 30 Smartphone Penetration in North America, Western Europe, and APAC 2010?2022

- Exhibit 31 Five Forces Analysis 2017
- Exhibit 32 Global Automotive Safety Electronics Market by Device Type: Overview
- Exhibit 33 Global Automotive Safety Electronics Market by Product Type 2017 and 2023
- Exhibit 34 Global Automotive Safety Electronics Market: Systems vis-à-vis Sensors CAGR Comparison 2017?2023
- Exhibit 35 Global Automotive Safety Electronic Market by Systems: Overview
- Exhibit 36 Global Automotive Safety Electronics Market by Systems 2015?2023 (\$ billion)
- Exhibit 37 Global Road Traffic Accident Data 2017 (Death Rate Per 100,000, Age Standardized)
- Exhibit 38 Functioning of ADAS Systems
- Exhibit 39 Global Automotive Safety Electronics Market by Sensors: Overview
- Exhibit 40 Global Automotive Safety Electronics Market by Sensors 2015?2023 (\$ billion)
- Exhibit 41 Core Sensor Functionalities
- Exhibit 42 Global Automotive Safety Electronics Market by Vehicle Type
- Exhibit 43 Global Automotive Safety Electronics Market by Vehicle Type 2017
- Exhibit 44 Global Sales of Luxury Vehicles by Brands 2015?2016 (thousand units)
- Exhibit 45 Global Automotive Safety Electronics Market by Vehicle Type 2015?2023 (\$ billion)
- Exhibit 46 Market Share of Geographies in Automotive Safety Electronics Market 2017 and 2023
- Exhibit 47 CAGRs of Key Geographies 2017?2023
- Exhibit 48 Automotive Sales in Europe 2005?2016 (million units)
- Exhibit 49 Changes in Per Capita Disposable Income in EU-27+1 Countries 2006?2015
- Exhibit 50 Annual Saving Ratio of Western European Countries 2008?2017
- Exhibit 51 Change in Annual Household Disposable Income in Europe 2008?2015 (%)
- Exhibit 52 Automotive Safety Electronics Market in Europe 2015?2023 (\$ billion)
- Exhibit 53 Road Accident Fatalities by Road Type & Transport Mode in Germany 2017
- Exhibit 54 Accident Causes Involving Passenger Injury in Germany 2013?2016
- Exhibit 55 Accidents Due to Technical Faults Involving Passenger Injury in Germany 2013?2016
- Exhibit 56 Automotive Sales in Germany 2005–2016 (million units)
- Exhibit 57 Automotive Safety Electronics Market in Germany 2015–2023 (\$ billion)
- Exhibit 58 Automotive Safety Electronics Market in APAC 2015?2023 (\$ billion)
- Exhibit 59 Gross Domestic Savings of Key APAC Countries 2008?2014 (% of income)
- Exhibit 60 Increase in Urban Population in APAC (Overall Population %) 2005?2045
- Exhibit 61 Comparison of Southeast Asian Countries with Income Brackets 2010?2025
- Exhibit 62 Top Three Largest Automotive Safety Electronics Markets in APAC

2015?2023 (\$ billion)

Exhibit 63 Automotive Sales in China 2005?2016 (million units)

Exhibit 64 Automotive Safety Electronics Market in China 2010?2016 (\$ billion)

Exhibit 65 Urban Households in China: Income Breakup 2010?2020

Exhibit 66 Automotive Safety Electronics Market in China 2015–2023 (\$ billion)

Exhibit 67 Automotive Sales in Japan 2005?2016 (million units)

Exhibit 68 Automotive Safety Electronics Market in Japan 2015–2023 (\$ billion)

Exhibit 69 Automotive Sales in South Korea 2005?2016 (million units)

Exhibit 70 Automotive Safety Electronics Market in South Korea 2015–2023 (\$ billion)

Exhibit 71 Annual Saving Ratio of US 2008?2017

Exhibit 72 Change in US GDP Growth Rate (Q1 2006?Q2 2016)

Exhibit 73 Automotive Safety Electronics Market in North America 2015?2023 (\$ billion)

Exhibit 74 Outlook of Hybrid and EVs in North America - 2015, 2030, and 2050
(thousand units)

Exhibit 75 Automotive Electronics Market in North America 2010–2016 (\$ billion)

Exhibit 76 Passenger Cars Sold in North America 2012–2016 (million units)

Exhibit 77 Tesla Units Sold in US 2013?2017 (units)

Exhibit 78 US: Crash Statistics and Crash Deaths by Vehicle Occupant Type

Exhibit 79 Canada: Crash Statistics and Crash Deaths by Vehicle Occupant Type
2014?2016

Exhibit 80 Mexico Light Vehicle Production and Export Data 2013?2017 (million units)

Exhibit 81 Automotive Sales in US 2005–2016 (million units)

Exhibit 82 Automotive Safety Electronics Market in US 2015–2023 (\$ billion)

Exhibit 83 Automotive Sales in Latin America (million units)

Exhibit 84 Automotive Safety Electronics Market in Latin America 2015?2023 (\$ billion)

Exhibit 85 Automotive Sales in Brazil 2005–2016 (million units)

Exhibit 86 Automotive Safety Electronics Market in Brazil 2015–2023 (\$ billion)

Exhibit 87 Automotive Sales in MEA 2005–2016 (million units)

Exhibit 88 Automotive Safety Electronics Market in MEA 2015–2023 (\$ billion)

Exhibit 89 Global Automotive Safety Electronics Market by Vendor Share 2017

List Of Tables

LIST OF TABLES

Table 1 Key Caveats

Table 2 Currency Conversion 2013?2017

Table 3 Real GDP per Capita Growth in Developing Countries 2013–2016

Table 4 YOY Impact of Market Growth Enablers 2017?2023

Table 5 YOY Impact of Market Growth Enablers on Regions 2017

Table 6 Average Minimum Wages in Various APAC Countries

Table 7 YOY Impact of Market Growth Restraints 2017?2023

Table 8 YOY Impact of Market Growth Restraints on Regions 2017

Table 9 Evolution of Automotive Electronic Components

Table 10 YOY Impact of Market Opportunities & Trends 2017?2023

Table 11 YOY Impact of Market Opportunities & Trends on Regions 2017

Table 12 Additional Electronic Components Required in EVs and HEVs

Table 13 Vehicles with ADAS Systems 2018

Table 14 Select NCAPs across the Globe

Table 15 Autoliv Safety Electronics Offerings

Table 16 Vehicle Crash Statistics in Germany 2013?2017

Table 17 Vehicle Crash Accidents by Driver Errors in Germany 2013?2017

Table 18 Automotive Safety Electronics Market in Europe by Product 2015?2023 (\$ billion)

Table 1 Taiwanese Government's Road Map for Automotive Electronics

Table 2 Adoption Rate of Safety Systems by OEMs for APAC Market

Table 3 Automotive Safety Electronics Market in APAC by Products 2015?2023 (\$ billion)

Table 4 Top Export Industries in South Korea 2016

Table 5 Automotive Safety Electronics Market in North America by Product 2015?2023 (\$ billion)

Table 6 Latin America by Key Macroeconomic Factors 2015

Table 7 Automotive Safety Electronics Market in Latin America by Product 2015?2023 (\$ billion)

Table 8 Population Demographics in Middle Eastern Countries 2014–2015

Table 9 List of Top Automotive Electronics Manufacturers in Africa 2016

Table 10 Automotive Safety Electronics Market in MEA by Product 2015?2023 (\$ billion)

Table 11 Autoliv: Product Offerings

Table 12 Bosch: Product Offerings

Table 13 Continental: Product Offerings

Table 14 Denso: Product Offerings

Table 15 ZF: Product Offerings

Table 16 Qualitative Summary of Global Automotive Safety Electronics Market

Table 17 Quantitative Summary of Market by Regions (\$ billion)

Table 18 Quantitative Summary of Market by Geography 2017?2023 (%)

Table 19 Quantitative Summary of Market by Product Type 2017?2023 (\$ billion)

Table 20 Quantitative Summary of Market by Product Type 2017?2023 (%)

Table 21 Quantitative Summary of Market by Vehicle Type 2017?2023 (\$ billion)

Table 22 Quantitative Summary of Market by Vehicle Type 2017?2023 (%)

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