

Global Automotive System ICs Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Automotive System ICs market size is predicted to grow from US\$ 50848 million in 2025 to US\$ 77206 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

Automotive system ICs refer to a collection of integrated circuits designed for automotive vehicles and in-vehicle electronic systems, meeting automotive-grade reliability and functional safety requirements. The statistical scope covers three main categories: Logic Devices (automotive computing and control ICs, such as MCUs/MPUs/SoCs), Memory Devices (automotive storage ICs, such as NOR/NAND/DRAM/EEPROMs), and Analog/RF/Power ICs (automotive analog/RF/power ICs, including signal chains and AFEs, drivers and isolation). The scope excludes sensors/optoelectronic devices (such as MEMS, image sensors, LEDs/lasers) and power discrete devices/power modules (such as Si/SiC MOSFETs and IGBT modules).

The core growth logic of the automotive system ICs market has shifted from 'traditional ECU quantity-driven' to 'electrification and intelligent computing and power architecture-driven.' In the electrification trend, high-voltage systems such as OBCs, DC-DC converters, BMSs, and electric drive inverters have significantly increased the usage and value density of Analog/Power ICs for vehicle power management, isolation, gate driving, and sampling AFEs. Simultaneously, the evolution of automotive electrical architecture from distributed ECUs to domain control/centralized computing has made Logic Devices (high-performance SoCs, domain control MCUs, etc.) and Memory Devices (DRAM, NAND/NOR) another main driver of increased semiconductor content per vehicle.

On the supply side, the competitive factors for automotive system ICs are expanding from single-device performance to 'platformization and system solution capabilities.' For example, SBCs (System Base Chips) highly integrate functions such as power supply, monitoring, watchdog timers, and vehicle network interfaces, reducing the complexity of vehicle wiring harnesses and BOMs. At the same time, the rising thresholds for functional safety (ASIL targets), cybersecurity, and automotive-grade reliability verification have made product certification, quality systems, mass production consistency, and failure mechanism control decisive barriers for leading manufacturers. New entrants that lack platformization, certification, and experience in adoption by OEMs/Tier 1 suppliers often find it difficult to achieve large-scale substitution in mid-to-high-end models.

LPI (LP Information)' newest research report, the "Automotive System ICs Industry Forecast" looks at past sales and reviews total world Automotive System ICs sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive System ICs sales for 2026 through 2032. With Automotive System ICs sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive System ICs industry.

This Insight Report provides a comprehensive analysis of the global Automotive System ICs landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Automotive System ICs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive System ICs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive System ICs and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Automotive System ICs.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive System ICs market by product type, application, key players and key regions and countries.

Segmentation by Type:

Logic Devices

Memory Devices

Analog/Power IC

Segmentation by Function:

MCU

SoC

NOR/NAND Flash

DRAM

SRAM/EEPROM

Power Management IC

Driver IC

Signal Chain IC

Others

Segmentation by Application:

Automotive Powertrain/Electric Drive Systems

Automotive Charging and Power Sources

Automotive Batteries

Automotive Chassis

Automotive Body and Comfort Systems

Automotive Networks and Gateways

ADAS/Autonomous Driving

Automotive Sensing Radar/Cameras

Automotive Infotainment

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Infineon Technologies

STMicroelectronics

Texas Instruments

Toshiba

ROHM Semiconductor

NXP Semiconductors

Renesas Electronics

ADI

Microchip

NVIDIA

Mobileye

Hisilicon

Horizon Robotics

Black Sesame Intelligent Technology

onsemi

Silicon Labs

BYD Semiconductor

Micron Technology

Samsung

SK Hynix Semiconductor

ISSI (Integrated Silicon Solution Inc.)

KIOXIA

Western Digital

Nanya Technology

Winbond

GigaDevice

Macronix

Giantec Semiconductor

Intel Corporation

Qualcomm

Broadcom

Nexperia

Diodes Incorporated

Monolithic Power Systems

Qorvo

SGMICRO

Silergy

Southchip Semiconductor Technology Co., Ltd

Power Integrations

MediaTek

Skyworks Solutions

NOVOSENSE Microelectronics

3Peak Incorporated

Nisshinbo

AutoChips

ChipON

GigaDevice

Nuvoton

Indie Microelectronics

Suzhou Flagchip Semiconductor Co., Ltd

Geehy Semiconductor

Jiangsu YUNTU

Nations Technologies Inc

Cmsemicon

CHIPWAYS

C*Core Technology Co., Ltd

LINKO SEMICONDUCTOR

SemiDrive

Shanghai MindMotion Microelectronics

SinoWealth

Shanghai Belling Corp., Ltd

OmniVision

Dosilicon Co., Ltd

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Automotive System ICs Market Size (2021-2032)
 - 2.1.2 Automotive System ICs Market Size CAGR by Region (2021 VS 2025 VS 2032)
 - 2.1.3 World Current & Future Analysis for Automotive System ICs by Country/Region (2021, 2025 & 2032)
- 2.2 Automotive System ICs Segment by Type
 - 2.2.1 Automotive Control IC
 - 2.2.2 Automotive PMIC
 - 2.2.3 Automotive Analog IC
 - 2.2.4 Automotive System ICs Market Size by Type
 - 2.2.4.1 Automotive System ICs Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.4.2 Global Automotive System ICs Market Size Market Share by Type (2021-2026)
- 2.3 Automotive System ICs Segment by Application
 - 2.3.1 Body Control
 - 2.3.2 Automotive Chassis Safety
 - 2.3.3 Automobile Motor Drive System
 - 2.3.4 ADAS
 - 2.3.5 Infotainment System
 - 2.3.6 Motion Transfer System
 - 2.3.7 Others
 - 2.3.8 Automotive System ICs Market Size by Application
 - 2.3.8.1 Automotive System ICs Market Size CAGR by Application (2021 VS 2025 VS 2032)

2.3.8.2 Global Automotive System ICs Market Size Market Share by Application (2021-2026)

3 AUTOMOTIVE SYSTEM ICS MARKET SIZE BY PLAYER

3.1 Automotive System ICs Market Size Market Share by Player

3.1.1 Global Automotive System ICs Revenue by Player (2021-2026)

3.1.2 Global Automotive System ICs Revenue Market Share by Player (2021-2026)

3.2 Global Automotive System ICs Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 AUTOMOTIVE SYSTEM ICS BY REGION

4.1 Automotive System ICs Market Size by Region (2021-2026)

4.2 Global Automotive System ICs Annual Revenue by Country/Region (2021-2026)

4.3 Americas Automotive System ICs Market Size Growth (2021-2026)

4.4 APAC Automotive System ICs Market Size Growth (2021-2026)

4.5 Europe Automotive System ICs Market Size Growth (2021-2026)

4.6 Middle East & Africa Automotive System ICs Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Automotive System ICs Market Size by Country (2021-2026)

5.2 Americas Automotive System ICs Market Size by Type (2021-2026)

5.3 Americas Automotive System ICs Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Automotive System ICs Market Size by Region (2021-2026)

6.2 APAC Automotive System ICs Market Size by Type (2021-2026)

6.3 APAC Automotive System ICs Market Size by Application (2021-2026)

- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

7 EUROPE

- 7.1 Europe Automotive System ICs Market Size by Country (2021-2026)
- 7.2 Europe Automotive System ICs Market Size by Type (2021-2026)
- 7.3 Europe Automotive System ICs Market Size by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Automotive System ICs by Region (2021-2026)
- 8.2 Middle East & Africa Automotive System ICs Market Size by Type (2021-2026)
- 8.3 Middle East & Africa Automotive System ICs Market Size by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 GLOBAL AUTOMOTIVE SYSTEM ICS MARKET FORECAST

- 10.1 Global Automotive System ICs Forecast by Region (2027-2032)

- 10.1.1 Global Automotive System ICs Forecast by Region (2027-2032)
- 10.1.2 Americas Automotive System ICs Forecast
- 10.1.3 APAC Automotive System ICs Forecast
- 10.1.4 Europe Automotive System ICs Forecast
- 10.1.5 Middle East & Africa Automotive System ICs Forecast
- 10.2 Americas Automotive System ICs Forecast by Country (2027-2032)
 - 10.2.1 United States Market Automotive System ICs Forecast
 - 10.2.2 Canada Market Automotive System ICs Forecast
 - 10.2.3 Mexico Market Automotive System ICs Forecast
 - 10.2.4 Brazil Market Automotive System ICs Forecast
- 10.3 APAC Automotive System ICs Forecast by Region (2027-2032)
 - 10.3.1 China Automotive System ICs Market Forecast
 - 10.3.2 Japan Market Automotive System ICs Forecast
 - 10.3.3 Korea Market Automotive System ICs Forecast
 - 10.3.4 Southeast Asia Market Automotive System ICs Forecast
 - 10.3.5 India Market Automotive System ICs Forecast
 - 10.3.6 Australia Market Automotive System ICs Forecast
- 10.4 Europe Automotive System ICs Forecast by Country (2027-2032)
 - 10.4.1 Germany Market Automotive System ICs Forecast
 - 10.4.2 France Market Automotive System ICs Forecast
 - 10.4.3 UK Market Automotive System ICs Forecast
 - 10.4.4 Italy Market Automotive System ICs Forecast
 - 10.4.5 Russia Market Automotive System ICs Forecast
- 10.5 Middle East & Africa Automotive System ICs Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market Automotive System ICs Forecast
 - 10.5.2 South Africa Market Automotive System ICs Forecast
 - 10.5.3 Israel Market Automotive System ICs Forecast
 - 10.5.4 Turkey Market Automotive System ICs Forecast
- 10.6 Global Automotive System ICs Forecast by Type (2027-2032)
- 10.7 Global Automotive System ICs Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Automotive System ICs Forecast

11 KEY PLAYERS ANALYSIS

- 11.1 Infineon Technologies
 - 11.1.1 Infineon Technologies Company Information
 - 11.1.2 Infineon Technologies Automotive System ICs Product Offered
 - 11.1.3 Infineon Technologies Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)

- 11.1.4 Infineon Technologies Main Business Overview
- 11.1.5 Infineon Technologies Latest Developments
- 11.2 STMicroelectronics
 - 11.2.1 STMicroelectronics Company Information
 - 11.2.2 STMicroelectronics Automotive System ICs Product Offered
 - 11.2.3 STMicroelectronics Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.2.4 STMicroelectronics Main Business Overview
 - 11.2.5 STMicroelectronics Latest Developments
- 11.3 Texas Instruments
 - 11.3.1 Texas Instruments Company Information
 - 11.3.2 Texas Instruments Automotive System ICs Product Offered
 - 11.3.3 Texas Instruments Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.3.4 Texas Instruments Main Business Overview
 - 11.3.5 Texas Instruments Latest Developments
- 11.4 Toshiba
 - 11.4.1 Toshiba Company Information
 - 11.4.2 Toshiba Automotive System ICs Product Offered
 - 11.4.3 Toshiba Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.4.4 Toshiba Main Business Overview
 - 11.4.5 Toshiba Latest Developments
- 11.5 ROHM Semiconductor
 - 11.5.1 ROHM Semiconductor Company Information
 - 11.5.2 ROHM Semiconductor Automotive System ICs Product Offered
 - 11.5.3 ROHM Semiconductor Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 ROHM Semiconductor Main Business Overview
 - 11.5.5 ROHM Semiconductor Latest Developments
- 11.6 Maxim Integrated
 - 11.6.1 Maxim Integrated Company Information
 - 11.6.2 Maxim Integrated Automotive System ICs Product Offered
 - 11.6.3 Maxim Integrated Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.6.4 Maxim Integrated Main Business Overview
 - 11.6.5 Maxim Integrated Latest Developments
- 11.7 Beijing Ingenic
 - 11.7.1 Beijing Ingenic Company Information

- 11.7.2 Beijing Ingenic Automotive System ICs Product Offered
- 11.7.3 Beijing Ingenic Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
- 11.7.4 Beijing Ingenic Main Business Overview
- 11.7.5 Beijing Ingenic Latest Developments
- 11.8 ADI
 - 11.8.1 ADI Company Information
 - 11.8.2 ADI Automotive System ICs Product Offered
 - 11.8.3 ADI Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.8.4 ADI Main Business Overview
 - 11.8.5 ADI Latest Developments
- 11.9 NXP Semiconductors
 - 11.9.1 NXP Semiconductors Company Information
 - 11.9.2 NXP Semiconductors Automotive System ICs Product Offered
 - 11.9.3 NXP Semiconductors Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.9.4 NXP Semiconductors Main Business Overview
 - 11.9.5 NXP Semiconductors Latest Developments
- 11.10 Renesas
 - 11.10.1 Renesas Company Information
 - 11.10.2 Renesas Automotive System ICs Product Offered
 - 11.10.3 Renesas Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.10.4 Renesas Main Business Overview
 - 11.10.5 Renesas Latest Developments
- 11.11 Microchip
 - 11.11.1 Microchip Company Information
 - 11.11.2 Microchip Automotive System ICs Product Offered
 - 11.11.3 Microchip Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 Microchip Main Business Overview
 - 11.11.5 Microchip Latest Developments
- 11.12 Allegro MicroSystems
 - 11.12.1 Allegro MicroSystems Company Information
 - 11.12.2 Allegro MicroSystems Automotive System ICs Product Offered
 - 11.12.3 Allegro MicroSystems Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.12.4 Allegro MicroSystems Main Business Overview

- 11.12.5 Allegro MicroSystems Latest Developments
- 11.13 Richtek
 - 11.13.1 Richtek Company Information
 - 11.13.2 Richtek Automotive System ICs Product Offered
 - 11.13.3 Richtek Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.13.4 Richtek Main Business Overview
 - 11.13.5 Richtek Latest Developments
- 11.14 Skyworks Solutions
 - 11.14.1 Skyworks Solutions Company Information
 - 11.14.2 Skyworks Solutions Automotive System ICs Product Offered
 - 11.14.3 Skyworks Solutions Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.14.4 Skyworks Solutions Main Business Overview
 - 11.14.5 Skyworks Solutions Latest Developments
- 11.15 Onsemi
 - 11.15.1 Onsemi Company Information
 - 11.15.2 Onsemi Automotive System ICs Product Offered
 - 11.15.3 Onsemi Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.15.4 Onsemi Main Business Overview
 - 11.15.5 Onsemi Latest Developments
- 11.16 Qualcomm
 - 11.16.1 Qualcomm Company Information
 - 11.16.2 Qualcomm Automotive System ICs Product Offered
 - 11.16.3 Qualcomm Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.16.4 Qualcomm Main Business Overview
 - 11.16.5 Qualcomm Latest Developments
- 11.17 Taiwan Semiconductors
 - 11.17.1 Taiwan Semiconductors Company Information
 - 11.17.2 Taiwan Semiconductors Automotive System ICs Product Offered
 - 11.17.3 Taiwan Semiconductors Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)
 - 11.17.4 Taiwan Semiconductors Main Business Overview
 - 11.17.5 Taiwan Semiconductors Latest Developments
- 11.18 Mixed-Mode Technology
 - 11.18.1 Mixed-Mode Technology Company Information
 - 11.18.2 Mixed-Mode Technology Automotive System ICs Product Offered

11.18.3 Mixed-Mode Technology Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)

11.18.4 Mixed-Mode Technology Main Business Overview

11.18.5 Mixed-Mode Technology Latest Developments

11.19 Bosch

11.19.1 Bosch Company Information

11.19.2 Bosch Automotive System ICs Product Offered

11.19.3 Bosch Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)

11.19.4 Bosch Main Business Overview

11.19.5 Bosch Latest Developments

11.20 BYD Semiconductor

11.20.1 BYD Semiconductor Company Information

11.20.2 BYD Semiconductor Automotive System ICs Product Offered

11.20.3 BYD Semiconductor Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)

11.20.4 BYD Semiconductor Main Business Overview

11.20.5 BYD Semiconductor Latest Developments

11.21 AutoChips Inc

11.21.1 AutoChips Inc Company Information

11.21.2 AutoChips Inc Automotive System ICs Product Offered

11.21.3 AutoChips Inc Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)

11.21.4 AutoChips Inc Main Business Overview

11.21.5 AutoChips Inc Latest Developments

11.22 Shenzhen Allystar

11.22.1 Shenzhen Allystar Company Information

11.22.2 Shenzhen Allystar Automotive System ICs Product Offered

11.22.3 Shenzhen Allystar Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)

11.22.4 Shenzhen Allystar Main Business Overview

11.22.5 Shenzhen Allystar Latest Developments

11.23 ChipON

11.23.1 ChipON Company Information

11.23.2 ChipON Automotive System ICs Product Offered

11.23.3 ChipON Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)

11.23.4 ChipON Main Business Overview

11.23.5 ChipON Latest Developments

11.24 Shenzhen Sinemicro

11.24.1 Shenzhen Sinemicro Company Information

11.24.2 Shenzhen Sinemicro Automotive System ICs Product Offered

11.24.3 Shenzhen Sinemicro Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)

11.24.4 Shenzhen Sinemicro Main Business Overview

11.24.5 Shenzhen Sinemicro Latest Developments

11.25 Chipways

11.25.1 Chipways Company Information

11.25.2 Chipways Automotive System ICs Product Offered

11.25.3 Chipways Automotive System ICs Revenue, Gross Margin and Market Share (2021-2026)

11.25.4 Chipways Main Business Overview

11.25.5 Chipways Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Automotive System ICs Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Automotive System ICs Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Automotive Control IC

Table 4. Major Players of Automotive PMIC

Table 5. Major Players of Automotive Analog IC

Table 6. Automotive System ICs Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 7. Global Automotive System ICs Market Size by Type (2021-2026) & (\$ millions)

Table 8. Global Automotive System ICs Market Size Market Share by Type (2021-2026)

Table 9. Automotive System ICs Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 10. Global Automotive System ICs Market Size by Application (2021-2026) & (\$ millions)

Table 11. Global Automotive System ICs Market Size Market Share by Application (2021-2026)

Table 12. Global Automotive System ICs Revenue by Player (2021-2026) & (\$ millions)

Table 13. Global Automotive System ICs Revenue Market Share by Player (2021-2026)

Table 14. Automotive System ICs Key Players Head office and Products Offered

Table 15. Automotive System ICs Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 16. New Products and Potential Entrants

Table 17. Mergers & Acquisitions, Expansion

Table 18. Global Automotive System ICs Market Size by Region (2021-2026) & (\$ millions)

Table 19. Global Automotive System ICs Market Size Market Share by Region (2021-2026)

Table 20. Global Automotive System ICs Revenue by Country/Region (2021-2026) & (\$ millions)

Table 21. Global Automotive System ICs Revenue Market Share by Country/Region (2021-2026)

Table 22. Americas Automotive System ICs Market Size by Country (2021-2026) & (\$ millions)

Table 23. Americas Automotive System ICs Market Size Market Share by Country

(2021-2026)

Table 24. Americas Automotive System ICs Market Size by Type (2021-2026) & (\$ millions)

Table 25. Americas Automotive System ICs Market Size Market Share by Type (2021-2026)

Table 26. Americas Automotive System ICs Market Size by Application (2021-2026) & (\$ millions)

Table 27. Americas Automotive System ICs Market Size Market Share by Application (2021-2026)

Table 28. APAC Automotive System ICs Market Size by Region (2021-2026) & (\$ millions)

Table 29. APAC Automotive System ICs Market Size Market Share by Region (2021-2026)

Table 30. APAC Automotive System ICs Market Size by Type (2021-2026) & (\$ millions)

Table 31. APAC Automotive System ICs Market Size by Application (2021-2026) & (\$ millions)

Table 32. Europe Automotive System ICs Market Size by Country (2021-2026) & (\$ millions)

Table 33. Europe Automotive System ICs Market Size Market Share by Country (2021-2026)

Table 34. Europe Automotive System ICs Market Size by Type (2021-2026) & (\$ millions)

Table 35. Europe Automotive System ICs Market Size by Application (2021-2026) & (\$ millions)

Table 36. Middle East & Africa Automotive System ICs Market Size by Region (2021-2026) & (\$ millions)

Table 37. Middle East & Africa Automotive System ICs Market Size by Type (2021-2026) & (\$ millions)

Table 38. Middle East & Africa Automotive System ICs Market Size by Application (2021-2026) & (\$ millions)

Table 39. Key Market Drivers & Growth Opportunities of Automotive System ICs

Table 40. Key Market Challenges & Risks of Automotive System ICs

Table 41. Key Industry Trends of Automotive System ICs

Table 42. Global Automotive System ICs Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 43. Global Automotive System ICs Market Size Market Share Forecast by Region (2027-2032)

Table 44. Global Automotive System ICs Market Size Forecast by Type (2027-2032) &

(\$ millions)

Table 45. Global Automotive System ICs Market Size Forecast by Application
(2027-2032) & (\$ millions)

Table 46. Infineon Technologies Details, Company Type, Automotive System ICs Area
Served and Its Competitors

Table 47. Infineon Technologies Automotive System ICs Product Offered

Table 48. Infineon Technologies Automotive System ICs Revenue (\$ million), Gross
Margin and Market Share (2021-2026)

Table 49. Infineon Technologies Main Business

Table 50. Infineon Technologies Latest Developments

Table 51. STMicroelectronics Details, Company Type, Automotive System ICs Area
Served and Its Competitors

Table 52. STMicroelectronics Automotive System ICs Product Offered

Table 53. STMicroelectronics Automotive System ICs Revenue (\$ million), Gross
Margin and Market Share (2021-2026)

Table 54. STMicroelectronics Main Business

Table 55. STMicroelectronics Latest Developments

Table 56. Texas Instruments Details, Company Type, Automotive System ICs Area
Served and Its Competitors

Table 57. Texas Instruments Automotive System ICs Product Offered

Table 58. Texas Instruments Automotive System ICs Revenue (\$ million), Gross Margin
and Market Share (2021-2026)

Table 59. Texas Instruments Main Business

Table 60. Texas Instruments Latest Developments

Table 61. Toshiba Details, Company Type, Automotive System ICs Area Served and Its
Competitors

Table 62. Toshiba Automotive System ICs Product Offered

Table 63. Toshiba Automotive System ICs Revenue (\$ million), Gross Margin and
Market Share (2021-2026)

Table 64. Toshiba Main Business

Table 65. Toshiba Latest Developments

Table 66. ROHM Semiconductor Details, Company Type, Automotive System ICs Area
Served and Its Competitors

Table 67. ROHM Semiconductor Automotive System ICs Product Offered

Table 68. ROHM Semiconductor Automotive System ICs Revenue (\$ million), Gross
Margin and Market Share (2021-2026)

Table 69. ROHM Semiconductor Main Business

Table 70. ROHM Semiconductor Latest Developments

Table 71. Maxim Integrated Details, Company Type, Automotive System ICs Area

Served and Its Competitors

Table 72. Maxim Integrated Automotive System ICs Product Offered

Table 73. Maxim Integrated Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 74. Maxim Integrated Main Business

Table 75. Maxim Integrated Latest Developments

Table 76. Beijing Ingenic Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 77. Beijing Ingenic Automotive System ICs Product Offered

Table 78. Beijing Ingenic Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 79. Beijing Ingenic Main Business

Table 80. Beijing Ingenic Latest Developments

Table 81. ADI Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 82. ADI Automotive System ICs Product Offered

Table 83. ADI Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 84. ADI Main Business

Table 85. ADI Latest Developments

Table 86. NXP Semiconductors Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 87. NXP Semiconductors Automotive System ICs Product Offered

Table 88. NXP Semiconductors Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 89. NXP Semiconductors Main Business

Table 90. NXP Semiconductors Latest Developments

Table 91. Renesas Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 92. Renesas Automotive System ICs Product Offered

Table 93. Renesas Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 94. Renesas Main Business

Table 95. Renesas Latest Developments

Table 96. Microchip Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 97. Microchip Automotive System ICs Product Offered

Table 98. Microchip Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 99. Microchip Main Business

Table 100. Microchip Latest Developments

Table 101. Allegro MicroSystems Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 102. Allegro MicroSystems Automotive System ICs Product Offered

Table 103. Allegro MicroSystems Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 104. Allegro MicroSystems Main Business

Table 105. Allegro MicroSystems Latest Developments

Table 106. Richtek Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 107. Richtek Automotive System ICs Product Offered

Table 108. Richtek Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 109. Richtek Main Business

Table 110. Richtek Latest Developments

Table 111. Skyworks Solutions Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 112. Skyworks Solutions Automotive System ICs Product Offered

Table 113. Skyworks Solutions Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 114. Skyworks Solutions Main Business

Table 115. Skyworks Solutions Latest Developments

Table 116. Onsemi Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 117. Onsemi Automotive System ICs Product Offered

Table 118. Onsemi Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 119. Onsemi Main Business

Table 120. Onsemi Latest Developments

Table 121. Qualcomm Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 122. Qualcomm Automotive System ICs Product Offered

Table 123. Qualcomm Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 124. Qualcomm Main Business

Table 125. Qualcomm Latest Developments

Table 126. Taiwan Semiconductors Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 127. Taiwan Semiconductors Automotive System ICs Product Offered
Table 128. Taiwan Semiconductors Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 129. Taiwan Semiconductors Main Business
Table 130. Taiwan Semiconductors Latest Developments
Table 131. Mixed-Mode Technology Details, Company Type, Automotive System ICs Area Served and Its Competitors
Table 132. Mixed-Mode Technology Automotive System ICs Product Offered
Table 133. Mixed-Mode Technology Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 134. Mixed-Mode Technology Main Business
Table 135. Mixed-Mode Technology Latest Developments
Table 136. Bosch Details, Company Type, Automotive System ICs Area Served and Its Competitors
Table 137. Bosch Automotive System ICs Product Offered
Table 138. Bosch Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 139. Bosch Main Business
Table 140. Bosch Latest Developments
Table 141. BYD Semiconductor Details, Company Type, Automotive System ICs Area Served and Its Competitors
Table 142. BYD Semiconductor Automotive System ICs Product Offered
Table 143. BYD Semiconductor Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 144. BYD Semiconductor Main Business
Table 145. BYD Semiconductor Latest Developments
Table 146. AutoChips Inc Details, Company Type, Automotive System ICs Area Served and Its Competitors
Table 147. AutoChips Inc Automotive System ICs Product Offered
Table 148. AutoChips Inc Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 149. AutoChips Inc Main Business
Table 150. AutoChips Inc Latest Developments
Table 151. Shenzhen Allystar Details, Company Type, Automotive System ICs Area Served and Its Competitors
Table 152. Shenzhen Allystar Automotive System ICs Product Offered
Table 153. Shenzhen Allystar Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 154. Shenzhen Allystar Main Business

Table 155. Shenzhen Allystar Latest Developments

Table 156. ChipON Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 157. ChipON Automotive System ICs Product Offered

Table 158. ChipON Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 159. ChipON Main Business

Table 160. ChipON Latest Developments

Table 161. Shenzhen Sinemicro Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 162. Shenzhen Sinemicro Automotive System ICs Product Offered

Table 163. Shenzhen Sinemicro Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 164. Shenzhen Sinemicro Main Business

Table 165. Shenzhen Sinemicro Latest Developments

Table 166. Chipways Details, Company Type, Automotive System ICs Area Served and Its Competitors

Table 167. Chipways Automotive System ICs Product Offered

Table 168. Chipways Automotive System ICs Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 169. Chipways Main Business

Table 170. Chipways Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Automotive System ICs Report Years Considered

Figure 2. Research Objectives

Figure 3. Research Methodology

Figure 4. Research Process and Data Source

Figure 5. Global Automotive System ICs Market Size Growth Rate (2021-2032) (\$ millions)

Figure 6. Automotive System ICs Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 7. Automotive System ICs Sales Market Share by Country/Region (2025)

Figure 8. Automotive System ICs Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 9. Global Automotive System ICs Market Size Market Share by Type in 2025

Figure 10. Automotive System ICs in Body Control

Figure 11. Global Automotive System ICs Market: Body Control (2021-2026) & (\$ millions)

Figure 12. Automotive System ICs in Automotive Chassis Safety

Figure 13. Global Automotive System ICs Market: Automotive Chassis Safety (2021-2026) & (\$ millions)

Figure 14. Automotive System ICs in Automobile Motor Drive System

Figure 15. Global Automotive System ICs Market: Automobile Motor Drive System (2021-2026) & (\$ millions)

Figure 16. Automotive System ICs in ADAS

Figure 17. Global Automotive System ICs Market: ADAS (2021-2026) & (\$ millions)

Figure 18. Automotive System ICs in Infotainment System

Figure 19. Global Automotive System ICs Market: Infotainment System (2021-2026) & (\$ millions)

Figure 20. Automotive System ICs in Motion Transfer System

Figure 21. Global Automotive System ICs Market: Motion Transfer System (2021-2026) & (\$ millions)

Figure 22. Automotive System ICs in Others

Figure 23. Global Automotive System ICs Market: Others (2021-2026) & (\$ millions)

Figure 24. Global Automotive System ICs Market Size Market Share by Application in 2025

Figure 25. Global Automotive System ICs Revenue Market Share by Player in 2025

Figure 26. Global Automotive System ICs Market Size Market Share by Region

(2021-2026)

Figure 27. Americas Automotive System ICs Market Size 2021-2026 (\$ millions)

Figure 28. APAC Automotive System ICs Market Size 2021-2026 (\$ millions)

Figure 29. Europe Automotive System ICs Market Size 2021-2026 (\$ millions)

Figure 30. Middle East & Africa Automotive System ICs Market Size 2021-2026 (\$ millions)

Figure 31. Americas Automotive System ICs Value Market Share by Country in 2025

Figure 32. United States Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 33. Canada Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 34. Mexico Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 35. Brazil Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 36. APAC Automotive System ICs Market Size Market Share by Region in 2025

Figure 37. APAC Automotive System ICs Market Size Market Share by Type (2021-2026)

Figure 38. APAC Automotive System ICs Market Size Market Share by Application (2021-2026)

Figure 39. China Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 40. Japan Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 41. South Korea Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 42. Southeast Asia Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 43. India Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 44. Australia Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 45. Europe Automotive System ICs Market Size Market Share by Country in 2025

Figure 46. Europe Automotive System ICs Market Size Market Share by Type (2021-2026)

Figure 47. Europe Automotive System ICs Market Size Market Share by Application (2021-2026)

Figure 48. Germany Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 49. France Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 50. UK Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 51. Italy Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 52. Russia Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 53. Middle East & Africa Automotive System ICs Market Size Market Share by Region (2021-2026)

Figure 54. Middle East & Africa Automotive System ICs Market Size Market Share by

Type (2021-2026)

Figure 55. Middle East & Africa Automotive System ICs Market Size Market Share by Application (2021-2026)

Figure 56. Egypt Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 57. South Africa Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 58. Israel Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 59. Turkey Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 60. GCC Countries Automotive System ICs Market Size Growth 2021-2026 (\$ millions)

Figure 61. Americas Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 62. APAC Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 63. Europe Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 64. Middle East & Africa Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 65. United States Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 66. Canada Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 67. Mexico Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 68. Brazil Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 69. China Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 70. Japan Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 71. Korea Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 72. Southeast Asia Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 73. India Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 74. Australia Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 75. Germany Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 76. France Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 77. UK Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 78. Italy Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 79. Russia Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 80. Egypt Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 81. South Africa Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 82. Israel Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 83. Turkey Automotive System ICs Market Size 2027-2032 (\$ millions)

Figure 84. Global Automotive System ICs Market Size Market Share Forecast by Type (2027-2032)

Figure 85. Global Automotive System ICs Market Size Market Share Forecast by Application (2027-2032)

Figure 86. GCC Countries Automotive System ICs Market Size 2027-2032 (\$ millions)

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