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Global Automotive Grade Smart Cockpit SoC Market Growth 2023-2029

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Abstracts

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According to our (LP Info Research) latest study, the global Automotive Grade Smart Cockpit SoC market size was valued at US$ million in 2022. With growing demand in downstream market and recovery from influence of COVID-19 and the Russia-Ukraine War, the Automotive Grade Smart Cockpit SoC is forecast to a readjusted size of US$ million by 2029 with a CAGR of % during review period.

The research report highlights the growth potential of the global Automotive Grade Smart Cockpit SoC market. With recovery from influence of COVID-19 and the Russia-Ukraine War, Automotive Grade Smart Cockpit SoC are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Automotive Grade Smart Cockpit SoC. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Automotive Grade Smart Cockpit SoC market.

The car-grade smart cockpit SoC refers to a high-performance chip used in the car smart cockpit system. It provides processing power and functional support in the car, and realizes various intelligent functions such as car infotainment, navigation, safety, and connectivity. These chips have powerful computing power and high reliability to meet modern cars' pursuit of intelligent and digital life.

As various car companies are moving towards intelligence and high-end, BYD, Xiaopeng, Weilai, Roewe, Ideal, Ford and other car manufacturers have even reached

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more than 80% of their smart cockpits. At present, mainstream smart cockpit SoC chips have basically realized The process below 10nm, the 8nm process includes Samsung V9, Rockchip RK3588M; the 7nm level includes Qualcomm 8155, Huawei Kirin 990A, and Core Engine SE1000. In September 2022, Nvidia released a new generation of self-driving chip Thor, with a computing power of up to 2000TOPS, mass production is planned for 2024; MediaTek develops an automotive SoC that integrates Nvidia GPU chips (chiplets), equipped with Nvidia AI and graphics computing IP. This chip is expected to adopt TSMC's 3nm process, which will be available at the end of 2025 and put into mass production in 2026-2027. The market prospect of car-grade smart cockpit SoC is very broad, the main reasons are as follows:

1. Increased consumer demand: With the pursuit of intelligence and digital life in modern society, consumers' demand for intelligent cockpit systems inside vehicles continues to increase. The smart cockpit SoC can provide diversified functions and high-performance processing capabilities to meet consumers' requirements for convenient and intelligent in-vehicle experience.

2. Development of intelligent driving technology: The rapid development of intelligent driving technology will put forward higher requirements for the vehicle intelligent cockpit system. Car-grade smart cockpit SoCs need to have powerful computing power and high reliability to support advanced driver assistance functions and automatic driving systems, and promote the further popularization of smart cars.

3. Popularization of new energy vehicles: The continuous growth of the new energy vehicle market has brought more opportunities for SoCs in car-level smart cockpits. These models have a more urgent demand for smart cockpit systems, prompting SoC manufacturers to continue to innovate and provide more advanced solutions.

4. Integration of artificial intelligence and Internet ecology: The vehicle-grade intelligent cockpit SoC combines artificial intelligence algorithms and Internet ecology to realize the seamless connection between vehicles and cloud services. This will provide car owners with personalized and intelligent services and experiences, and enhance the competitiveness of cars.

5. Manufacturer competition and cooperation: The smart cockpit SoC market is highly competitive. Not only are traditional automotive chip manufacturers competing for layout, such as Renesas, NXP, and Texas Instruments; but also consumer-grade chip manufacturers are entering this field, such as Qualcomm, Samsung, Intel has a natural advantage in the field of high-computing, advanced-process automotive chips, and its

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product iteration speed is fast, and it is widely used in mid-to-high-end models. At the same time, the automotive-grade smart cockpit SoC market has also promoted the cooperation between chip manufacturers and car manufacturers, and promoted the innovation and application of smart cockpit technology.

Key Features:

The report on Automotive Grade Smart Cockpit SoC market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Automotive Grade Smart Cockpit SoC market. It may include historical data, market segmentation by Type (e.g., 7nm, 8nm), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Automotive Grade Smart Cockpit SoC market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Automotive Grade Smart Cockpit SoC market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Automotive Grade Smart Cockpit SoC industry. This include advancements in Automotive Grade Smart Cockpit SoC technology, Automotive Grade Smart Cockpit SoC new entrants, Automotive Grade Smart Cockpit SoC new investment, and other innovations that are shaping the future of Automotive Grade Smart Cockpit SoC.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Automotive Grade Smart Cockpit SoC market. It includes factors influencing customer ' purchasing decisions, preferences for Automotive Grade Smart Cockpit SoC product.

Government Policies and Incentives: The research report analyse the impact of

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government policies and incentives on the Automotive Grade Smart Cockpit SoC market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Automotive Grade Smart Cockpit SoC market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Automotive Grade Smart Cockpit SoC market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Automotive Grade Smart Cockpit SoC industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Automotive Grade Smart Cockpit SoC market.

Market Segmentation:

Automotive Grade Smart Cockpit SoC market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

7nm

8nm

16nm

Others

Segmentation by application

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- Passenger Car
- Commercial Vehicle

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

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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.

Qualcomm Technologies, Inc.

NXP Semiconductors

Renesas Electronics Corporation

TI

Intel Corporation

NVIDIA

MediaTek Inc.

Samsung

Telechips

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Huawei Technologies Co., Ltd.

Nanjing Semidrive Technology Ltd

Rockchip Electronics Co., Ltd.

Allwinner Technology Co., Ltd.

SiEngine Technology Co., Ltd.

UNISOC (Shanghai) Technology Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Grade Smart Cockpit SoC market?

What factors are driving Automotive Grade Smart Cockpit SoC market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Automotive Grade Smart Cockpit SoC market opportunities vary by end market size?

How does Automotive Grade Smart Cockpit SoC break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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