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Global Automotive Grade Smart Automotive Computing Chip Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Grade Smart Automotive Computing Chip market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period.

Automotive grade smart automotive computing chip is a type of semiconductor device that is designed to perform high-performance computing, artificial intelligence, and multimedia functions for advanced driver assistance systems (ADAS) and autonomous vehicles (AVs). These chips are built using leading chip manufacturing processes to maximize feature integration, performance, and power efficiency. They also support various wireless communication technologies, such as 5G, Wi-Fi, Bluetooth, and GNSS navigation, to enable connected and intelligent mobility services. Some examples of automotive grade smart automotive computing chips are:

Kneron KL530: This chip supports Vision Transformers (ViT), a new class of deep learning architecture that can achieve more accurate image detection and reduced processing time than traditional Convolutional Neural Networks (CNN). It also has a 4-bit data processor that can process more frames per second and reduce data processing time by up to 66%. It can detect more apertures within any given time, so things like facial recognition can be sped up by up to half a second. It also has an image system processor that enables blind spot detection, classification, distance measuring and hazard recognition.

MediaTek Dimensity Auto: This is a range of new automotive solutions that feature scalable AI multi-processor equipped with both deep learning accelerator (MDLA) and

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vision processing unit (MVPU), MediaTek MiraVision smart display technology that supports multiple displays and up to 8K 120Hz screens in HDR, a dedicated DSP for microphone audio processing, full suite of entertainment streaming and decoding, fast sub-1s boot time, cutting-edge automotive communication technologies based on 3GPP open standards, including MediaTek 5G NTN, V2X, and 5G RedCap, Wi-Fi 7 equipped with MediaTek's unique hardware networking accelerator, comprehensive GNSS coverage for more accurate positioning2.

Qualcomm Snapdragon Cockpit: This platform provides a comprehensive architecture for bringing connected and intelligent experiences to the modern vehicle, including in-car virtual assistance, contextual safety use cases, advanced audio, graphics, and multimedia. It also supports various connectivity solutions, such as 5G NR cellular vehicle-to-everything (C-V2X), Wi-Fi 6E/6/5/4/3/2/1 with dual-band simultaneous (DBS), Bluetooth 5.2 with aptX Adaptive audio technology.

The Global Info Research report includes an overview of the development of the Automotive Grade Smart Automotive Computing Chip industry chain, the market status of Commercial Vehicles (Radar Sensors, Vision Processor), Passenger Vehicles (Radar Sensors, Vision Processor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Automotive Grade Smart Automotive Computing Chip.

Regionally, the report analyzes the Automotive Grade Smart Automotive Computing Chip markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Automotive Grade Smart Automotive Computing Chip market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Automotive Grade Smart Automotive Computing Chip market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Automotive Grade Smart Automotive Computing Chip industry.

The report involves analyzing the market at a macro level:

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Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Radar Sensors, Vision Processor).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Automotive Grade Smart Automotive Computing Chip market.

Regional Analysis: The report involves examining the Automotive Grade Smart Automotive Computing Chip market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Automotive Grade Smart Automotive Computing Chip market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Automotive Grade Smart Automotive Computing Chip:

Company Analysis: Report covers individual Automotive Grade Smart Automotive Computing Chip manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Automotive Grade Smart Automotive Computing Chip This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Commercial Vehicles, Passenger Vehicles).

Technology Analysis: Report covers specific technologies relevant to Automotive Grade Smart Automotive Computing Chip. It assesses the current state, advancements, and potential future developments in Automotive Grade Smart Automotive Computing Chip areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers,

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the report present insights into the competitive landscape of the Automotive Grade Smart Automotive Computing Chip market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Automotive Grade Smart Automotive Computing Chip 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.

Market segment by Type

Radar Sensors

Vision Processor

Network Processor

Others

Market segment by Application

Commercial Vehicles

Passenger Vehicles

Major players covered

Qualcomm

MediaTek

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Kneron

Infineon

NXP Semiconductors

Renesas Electronics

Texas Instruments Incorporated

STMicroelectronics

Bosch

Continental

Xilinx

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

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

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

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

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

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

Chapter 1, to describe Automotive Grade Smart Automotive Computing Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Grade Smart Automotive

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Computing Chip, with price, sales, revenue and global market share of Automotive Grade Smart Automotive Computing Chip from 2018 to 2023.

Chapter 3, the Automotive Grade Smart Automotive Computing Chip competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Grade Smart Automotive Computing Chip breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022.and Automotive Grade Smart Automotive Computing Chip market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Grade Smart Automotive Computing Chip.

Chapter 14 and 15, to describe Automotive Grade Smart Automotive Computing Chip sales channel, distributors, customers, research findings and conclusion.

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Figure 85. Research Process and Data Source

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