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Global Automotive Grade Smart Automotive Computing Chip Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Automotive Grade Smart Automotive Computing Chip market size is expected to reach $ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

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 vision processing unit (MVPU), MediaTek MiraVision smart display technology that

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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.

This report studies the global Automotive Grade Smart Automotive Computing Chip production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Grade Smart Automotive Computing Chip, and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Grade Smart Automotive Computing Chip that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Grade Smart Automotive Computing Chip total production and demand, 2018-2029, (K Units)

Global Automotive Grade Smart Automotive Computing Chip total production value, 2018-2029, (USD Million)

Global Automotive Grade Smart Automotive Computing Chip production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Automotive Grade Smart Automotive Computing Chip consumption by region & country, CAGR, 2018-2029 & (K Units)

U.S. VS China: Automotive Grade Smart Automotive Computing Chip domestic

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production, consumption, key domestic manufacturers and share

Global Automotive Grade Smart Automotive Computing Chip production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Units)

Global Automotive Grade Smart Automotive Computing Chip production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Units)

Global Automotive Grade Smart Automotive Computing Chip production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Units).

This reports profiles key players in the global Automotive Grade Smart Automotive Computing Chip market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Qualcomm, MediaTek, Kneron, Infineon, NXP Semiconductors, Renesas Electronics, Texas Instruments Incorporated, STMicroelectronics and Bosch, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Grade Smart Automotive Computing Chip market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Automotive Grade Smart Automotive Computing Chip Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Grade Smart Automotive Computing Chip Market, Segmentation by Type

Radar Sensors

Vision Processor

Network Processor

Others

Global Automotive Grade Smart Automotive Computing Chip Market, Segmentation by Application

Commercial Vehicles

Passenger Vehicles

Companies Profiled:

Qualcomm

MediaTek

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Kneron

Infineon

NXP Semiconductors

Renesas Electronics

Texas Instruments Incorporated

STMicroelectronics

Bosch

Continental

Xilinx

Key Questions Answered

1. How big is the global Automotive Grade Smart Automotive Computing Chip market?

2. What is the demand of the global Automotive Grade Smart Automotive Computing Chip market?

3. What is the year over year growth of the global Automotive Grade Smart Automotive Computing Chip market?

4. What is the production and production value of the global Automotive Grade Smart Automotive Computing Chip market?

5. Who are the key producers in the global Automotive Grade Smart Automotive Computing Chip market?

6. What are the growth factors driving the market demand?

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Contents

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3 WORLD AUTOMOTIVE GRADE SMART AUTOMOTIVE COMPUTING CHIP MANUFACTURERS COMPETITIVE ANALYSIS

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+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

+357 96 030922
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6 MARKET ANALYSIS BY APPLICATION

7 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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