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Global Automotive-Grade Autonomous Driving Computing Chips Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Automotive-Grade Autonomous Driving Computing Chips market size was valued at US$ 12440 million in 2024 and is forecast to a readjusted size of USD 31750 million by 2031 with a CAGR of 14.5% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Automotive-Grade Autonomous Driving Computing Chips refer to high-performance computing chips designed specifically for autonomous driving systems that meet the strict standards and specifications of the automotive industry. These chips not only have powerful computing capabilities, but also have the characteristics of high reliability, high security and low power consumption to meet the needs of autonomous driving systems for complex tasks such as real-time data processing, environmental perception, decision-making and control.

This report is a detailed and comprehensive analysis for global Automotive-Grade Autonomous Driving Computing Chips market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

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Key Features:

Global Automotive-Grade Autonomous Driving Computing Chips market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Automotive-Grade Autonomous Driving Computing Chips market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Automotive-Grade Autonomous Driving Computing Chips market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Automotive-Grade Autonomous Driving Computing Chips market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive-Grade Autonomous Driving Computing Chips

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive-Grade Autonomous Driving Computing Chips market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nvidia, Huawei, Tesla, TI, Qualcomm, Mobiley (Intel), AMD, Renesas, Beijing Horizon Information Technology, Desay SV Automotive, etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

Market Segmentation

Automotive-Grade Autonomous Driving Computing Chips market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

100TOPS Below

100-200TOPS

200TOPS Above

Market segment by Application

BEV

PHEV

Others

Major players covered

Nvidia

Huawei

Tesla

TI

Qualcomm

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Mobiley (Intel)

AMD

Renesas

Beijing Horizon Information Technology

Desay SV Automotive

Black Sesame Intelligent Technology

Semidrive Technology

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 Autonomous Driving Computing Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive-Grade Autonomous Driving Computing Chips, with price, sales quantity, revenue, and global market share of Automotive-Grade Autonomous Driving Computing Chips from 2020 to 2025.

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

Chapter 4, the Automotive-Grade Autonomous Driving Computing Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025.and Automotive-Grade Autonomous Driving Computing Chips market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive-Grade Autonomous Driving Computing Chips.

Chapter 14 and 15, to describe Automotive-Grade Autonomous Driving Computing Chips sales channel, distributors, customers, research findings and conclusion.

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Figure 85. Research Process and Data Source

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