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Global Large Computing Power Autonomous Driving SoC 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 Large Computing Power Autonomous Driving SoC Chips market size was valued at US$ 825 million in 2024 and is forecast to a readjusted size of USD 2870 million by 2031 with a CAGR of 22.1% during review period.

Large computing power autonomous driving SoC chips (Above 100 TOPS) are specialized integrated circuits designed to provide substantial computational capabilities for autonomous driving systems. These chips integrate various functional units, including CPUs, GPUs, NPUs (Neural Processing Units), and specialized accelerators, onto a single silicon substrate to handle the complex computations required for high-level autonomous driving functions.

This report is a detailed and comprehensive analysis for global Large Computing Power Autonomous Driving SoC 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.

Key Features:

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

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Global Large Computing Power Autonomous Driving SoC 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 Large Computing Power Autonomous Driving SoC 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 Large Computing Power Autonomous Driving SoC 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 Large Computing Power Autonomous Driving SoC 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 Large Computing Power Autonomous Driving SoC 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, TI, Qualcomm, Horizon Robotics, Black Sesame Technologies, Mobileye Global Inc, Tesla, HUAWEI, Cambricon Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Large Computing Power Autonomous Driving SoC 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

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TOPS: 100 - 200

TOPS: Above 200

Market segment by Application

Commercial Vehicles

Passenger Vehicles

Major players covered

Nvidia

TI

Qualcomm

Horizon Robotics

Black Sesame Technologies

Mobileye Global Inc

Tesla

HUAWEI

Cambricon Technologies

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

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& Africa)

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

Chapter 1, to describe Large Computing Power Autonomous Driving SoC Chips product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Large Computing Power Autonomous Driving SoC 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 Large Computing Power Autonomous Driving SoC 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 Large Computing Power Autonomous Driving SoC Chips.

Chapter 14 and 15, to describe Large Computing Power Autonomous Driving SoC Chips sales channel, distributors, customers, research findings and conclusion.

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