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Global Large Computing Power Autonomous Driving SoC Chips Market Growth 2025-2031

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Abstracts

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The global Large Computing Power Autonomous Driving SoC Chips market size is predicted to grow from US$ 825 million in 2025 to US$ 2918 million in 2031; it is expected to grow at a CAGR of 23.4% from 2025 to 2031.

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.

United States market for Large Computing Power Autonomous Driving SoC Chips is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

China market for Large Computing Power Autonomous Driving SoC Chips is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Europe market for Large Computing Power Autonomous Driving SoC Chips is estimated to increase from US$ million in 2024 to US$ million by 2031, at a CAGR of % from 2025 through 2031.

Global key Large Computing Power Autonomous Driving SoC Chips players cover

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Nvidia, TI, Qualcomm, Horizon Robotics, Black Sesame Technologies, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2024.

LP Information, Inc. (LPI) ' newest research report, the “Large Computing Power Autonomous Driving SoC Chips Industry Forecast” looks at past sales and reviews total world Large Computing Power Autonomous Driving SoC Chips sales in 2024, providing a comprehensive analysis by region and market sector of projected Large Computing Power Autonomous Driving SoC Chips sales for 2025 through 2031. With Large Computing Power Autonomous Driving SoC Chips sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Large Computing Power Autonomous Driving SoC Chips industry.

This Insight Report provides a comprehensive analysis of the global Large Computing Power Autonomous Driving SoC Chips landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Large Computing Power Autonomous Driving SoC Chips portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Large Computing Power Autonomous Driving SoC Chips market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Large Computing Power Autonomous Driving SoC Chips and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Large Computing Power Autonomous Driving SoC Chips.

This report presents a comprehensive overview, market shares, and growth opportunities of Large Computing Power Autonomous Driving SoC Chips market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

TOPS: 100 - 200

TOPS: Above 200

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Segmentation by Application:

- Commercial Vehicles
- Passenger Vehicles

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China
  - Japan
  - Korea
  - Southeast Asia
  - India
  - Australia
- Europe
  - Germany

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France

UK

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 analysing the company's coverage, product portfolio, its market penetration.

Nvidia

TI

Qualcomm

Horizon Robotics

Black Sesame Technologies

Mobileye Global Inc

Tesla

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HUAWEI

Cambricon Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Large Computing Power Autonomous Driving SoC Chips market?

What factors are driving Large Computing Power Autonomous Driving SoC Chips market growth, globally and by region?

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

How do Large Computing Power Autonomous Driving SoC Chips market opportunities vary by end market size?

How does Large Computing Power Autonomous Driving SoC Chips break out by Type, by Application?

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Market Share Forecast by Application (2026-2031)

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