

Global AI Chips for Self-Driving Market Growth 2026-2032

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Abstracts

The global AI Chips for Self-Driving market size is predicted to grow from US\$ 10311 million in 2025 to US\$ 35892 million in 2032; it is expected to grow at a CAGR of 19.6% from 2026 to 2032.

In 2025, the global AI chips for self-driving market records an annual production volume of approximately 34 million pieces against a global installed production capacity of around 45 million pieces per year, with average unit price USD 310, while leading suppliers maintain gross margins of roughly 52%. AI chips for self-driving are specialized automotive-grade semiconductors designed to execute real-time perception, sensor fusion, localization, prediction, and driving-policy inference by accelerating AI workloads such as convolutional neural networks, transformers, and classical vision algorithms under strict latency, safety (ISO 26262), and power constraints. Their supply chain begins with IP and architecture design (CPU/GPU/NPU/ASIC cores, safety islands, and software toolchains), followed by logic wafer fabrication at advanced foundries (primarily 5–7 nm, with some 10–16 nm for cost and reliability), advanced packaging (2.5D/3D, chiplets, high-bandwidth memory integration), and automotive qualification and testing; upstream materials and equipment suppliers (EDA tools, lithography, substrates, and memory) feed this process, while downstream Tier-1 automotive suppliers integrate the chips into domain controllers or centralized compute platforms, which are then validated with vehicle OEMs and deployed across passenger cars, robotaxis, and commercial vehicles, supported by long-term software updates and lifecycle management.

United States market for AI Chips for Self-Driving is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for AI Chips for Self-Driving is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for AI Chips for Self-Driving is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key AI Chips for Self-Driving players cover NVIDIA, Qualcomm, Intel, AMD, Tesla, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "AI Chips for Self-Driving Industry Forecast" looks at past sales and reviews total world AI Chips for Self-Driving sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Chips for Self-Driving sales for 2026 through 2032. With AI Chips for Self-Driving sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Chips for Self-Driving industry.

This Insight Report provides a comprehensive analysis of the global AI Chips for Self-Driving 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 AI Chips for Self-Driving portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global AI Chips for Self-Driving market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Chips for Self-Driving 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 AI Chips for Self-Driving.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Chips for Self-Driving market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

CPU-centric AI Chips

GPU-based AI Chips

NPU-centric AI Chips

Segmentation by AI Performance:

Low AI Compute (500 TOPS)

Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

Robotaxis

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

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

Qualcomm

Intel

AMD

Tesla

Black Sesame Technologies

NIO

XPeng

Rivian

Samsung

Tenstorrent

BOS Semiconductors

Hailo

Syntiant

Graphcore

Broadcom

NXP

Renesas

Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Chips for Self-Driving market?

What factors are driving AI Chips for Self-Driving market growth, globally and by

region?

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

How do AI Chips for Self-Driving market opportunities vary by end market size?

How does AI Chips for Self-Driving break out by Type, by Application?

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