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Global AI Inference Accelerator Card Market Growth 2026-2032

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Abstracts

The global AI Inference Accelerator Card market size is predicted to grow from US$ 31200 million in 2025 to US$ 101880 million in 2032; it is expected to grow at a CAGR of 18.8% from 2026 to 2032.

In 2024, global AI Inference Accelerator Card reached approximately 17.42 million units, with an average global market price of around US$ 1550 per unit.

An AI inference accelerator card is a high-performance computing device designed to accelerate AI model inference, installed via PCIe, M.2, or SXM interfaces in servers or edge devices. Built with GPU, NPU, TPU, FPGA, or ASIC accelerators, it performs vector operations, matrix multiplication, convolution acceleration, and neural network forward inference far more efficiently than CPUs.

The AI ??inference accelerator card industry chain is divided into upstream chips and core components, midstream accelerator card design, manufacturing, and software framework integration, and downstream industry applications. Upstream includes AI accelerator chips, HBM/DDR memory, VRAM, PMIC, power modules, PCBs, and heat dissipation modules, supplied by companies such as NVIDIA, AMD, Intel, Google, Huawei Ascend, Samsung, and Micron.

Midstream companies are responsible for the hardware design of the accelerator cards, FPGA/ASIC acceleration module development, driver optimization, and AI framework adaptation (such as TensorRT, ONNX Runtime, and PyTorch). Representative manufacturers include NVIDIA, AMD, Cambricon, and Suiyuan Technology.

Downstream applications are mainly in smart security, industrial vision, robotics,

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autonomous driving, cloud inference centers, smart cities, medical AI, retail analytics, and telecom operators. End customers include Huawei Cloud, Alibaba Cloud, Tencent Cloud, Amazon AWS, Tesla, Hikvision, and SenseTime.

The annual production capacity of a single-line AI Inference Accelerator Card is approximately 430k units, with a gross profit margin of approximately 35%-55%.

United States market for AI Inference Accelerator Card 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 Inference Accelerator Card 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 Inference Accelerator Card 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 Inference Accelerator Card players cover NVIDIA, AMD, Intel, IBM, SambaNova Systems, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global AI Inference Accelerator Card 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 Inference Accelerator Card portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global AI Inference Accelerator Card market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

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shaping the global outlook for AI Inference Accelerator Card 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 Inference Accelerator Card.

This report presents a comprehensive overview, market shares, and growth opportunities of AI Inference Accelerator Card market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

GPU

NPU

NPU

Others

Segmentation by Performance Level:

1-20TOPS

20-100TOPS

100-1000TOPS

?1000TOPS

Segmentation by Power Consumption:

5-15W

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15-75W

75-150W

150-350W

350-700W

Others

Segmentation by Application:

Video Analytics

Autonomous Driving

AIGC

Machine Vision

Speech Recognition

Edge Computing

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- 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

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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

AMD

Intel

IBM

SambaNova Systems

ASUS

Cerebras Systems

Qualcomm

Hailo

Enrigin

Enflame

Cambricon

Kunlun Core

Huawei

Sunix

Veiglo

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Key Questions Addressed in this Report

What is the 10-year outlook for the global AI Inference Accelerator Card market?

What factors are driving AI Inference Accelerator Card market growth, globally and by region?

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

How do AI Inference Accelerator Card market opportunities vary by end market size?

How does AI Inference Accelerator Card break out by Type, by Application?

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