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Global AI Inference Accelerator Card Market Research Report 2026(Status and Outlook)

https://marketpublishers.com/r/G991657EF836EN.html
Date: May 2026
Pages: 158
Price: US$ 3,200.00 (Single User License)
ID: G991657EF836EN

Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on AI Inference Accelerator Card competitive dynamics, regional economic interdependencies, and supply chain reconfigurations.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, 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%.

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The global AI Inference Accelerator Card market size was estimated at USD 27005.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 18.10% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global AI Inference Accelerator Card market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global AI Inference Accelerator Card market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the AI Inference Accelerator Card market.

Global AI Inference Accelerator Card Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate

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product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

NVIDIA

AMD

Intel

IBM

SambaNova Systems

ASUS

Cerebras Systems

Qualcomm

Hailo

Enrigin

Enflame

Cambricon

Kunlun Core

Huawei

Sunix

Veiglo

Market Segmentation (by Type)

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GPU

NPU

NPU

Others

Market Segmentation (by Application)

Video Analytics

Autonomous Driving

AIGC

Machine Vision

Speech Recognition

Edge Computing

Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa,

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Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the AI Inference Accelerator Card Market

Overview of the regional outlook of the AI Inference Accelerator Card Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the AI Inference Accelerator Card Market and its likely evolution in the short to mid-term, and long term.

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Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of AI Inference Accelerator Card, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

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Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter’s five forces analysis

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Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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