

Global AI Accelerator Cards Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global AI Accelerator Cards market size will reach 103,723 Million USD in 2025 and is projected to reach 2,265,935 Million USD by 2032, with a CAGR of 55.36% (2025-2032). Notably, the China AI Accelerator Cards market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

AI accelerator cards are specialized hardware components designed to accelerate artificial intelligence (AI) and machine learning (ML) tasks by performing complex computations much faster than general-purpose processors like CPUs. These cards typically utilize advanced architectures such as Graphics Processing Units (GPUs), Tensor Processing Units (TPUs), or Field-Programmable Gate Arrays (FPGAs), optimized for tasks like deep learning, neural network processing, and large-scale data analysis. By offloading AI workloads from the CPU, AI accelerator cards significantly improve performance and efficiency, enabling faster training of models, real-time inference, and handling of large datasets. They are commonly used in data centers, research labs, and edge computing devices, supporting applications across various industries, including autonomous vehicles, healthcare, finance, and robotics. The integration of AI accelerator cards is key to meeting the growing demands for processing power in AI-driven technologies.

The major global suppliers of AI Accelerator Cards include NVIDIA, AMD, Intel, Huawei,

Qualcomm, IBM, Hailo, Denglin Technology, HYGON, Achronix Semiconductor, Shanghai Iluvatar CoreX Semiconductor Co., Ltd., Shanghai Suiyuan Technology Co., Ltd., Kunlunxin, Cambricon Technologies Co., Ltd., Vastai Technologies, Advantech Co., Ltd., etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of AI Accelerator Cards. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major suppliers, as well as the market status and trends of different product types and applications in the global AI Accelerator Cards market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the AI Accelerator Cards market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of AI Accelerator Cards industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Suppliers of AI Accelerator Cards Include:

NVIDIA

AMD

Intel

Huawei

Qualcomm

IBM

Hailo

Denglin Technology

HYGON

Achronix Semiconductor

Shanghai Iluvatar CoreX Semiconductor Co., Ltd.

Shanghai Suiyuan Technology Co., Ltd.

Kunlunxin

Cambricon Technologies Co., Ltd.

Vastai Technologies

Advantech Co., Ltd.

AI Accelerator Cards Product Segment Include:

GPU

FPGA

ASIC

AI Accelerator Cards Product Application Include:

Cloud Deployment

Terminal Deployment

Chapter Scope

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