

Global AI Accelerator PCIe Card Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global AI Accelerator PCIe Card market size is expected to reach \$ 13278 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

In 2025, global AI Accelerator PCIe Card production reached approximately 1098 k units with an average global market price of around US\$ 4499 per unit. Single-line annual production capacity averages 50 k units with a gross margin of approximately 40-45%. The upstream of the AI Accelerator PCIe Card industry is focused on high-performance computing chips and specialized integrated circuit design, predominantly centered in the fields of artificial intelligence and data centers; the downstream applications are divided with AIoT accounting for about 40%, industrial automation for about 30%, data centers for about 25%, and other applications for about 5%; demand analysis indicates that with the widespread application of AI technology, the demand for AI Accelerator PCIe Cards is continuously growing, with business opportunities primarily manifesting in the expansion of AI application scenarios and the intelligent upgrade of systems.

The PCIe Card serves as a critical interface for integrating advanced AI processing capabilities, acting as a bridge that enables seamless data transfer between the host system and the AI acceleration hardware. It leverages AI algorithms to optimize computational tasks, resulting in a significant enhancement of processing speed and efficiency. This card is engineered to support complex AI models, providing the necessary computational power to execute deep learning, machine learning, and neural network operations with precision and speed. By offloading intensive AI computations from the CPU, it ensures that the host system can maintain high performance across a range of applications, including data analytics, real-time decision-making, and advanced

simulations.

This report studies the global AI Accelerator PCIe Card production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI Accelerator PCIe Card and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI Accelerator PCIe Card that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI Accelerator PCIe Card total production and demand, 2021-2032, (K Units)

Global AI Accelerator PCIe Card total production value, 2021-2032, (USD Million)

Global AI Accelerator PCIe Card production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global AI Accelerator PCIe Card consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: AI Accelerator PCIe Card domestic production, consumption, key domestic manufacturers and share

Global AI Accelerator PCIe Card production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global AI Accelerator PCIe Card production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global AI Accelerator PCIe Card production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI Accelerator PCIe Card market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hitek Systems, NVIDIA, Axelera, ASUS, Hailo, EdgeCortex, Inspur Electronic Information Industry, Huawei, Beijing Cambricon Technologies Corporation, Jiangyuanxin Technology (Shanghai), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World AI Accelerator PCIe Card market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI Accelerator PCIe Card Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Accelerator PCIe Card Market, Segmentation by Type:

Single PCIe Card

Dual PCIe Card

Global AI Accelerator PCIe Card Market, Segmentation by PCIe Card Size:

Half-length, Half-height PCIe Card

Half-length, Full-height PCIe Card

Global AI Accelerator PCIe Card Market, Segmentation by Application:

Cloud Servers

Data Centers

Other infrastructure

Companies Profiled:

Hitek Systems

NVIDIA

Axelera

ASUS

Hailo

EdgeCortix

Inspur Electronic Information Industry

Huawei

Beijing Cambricon Technologies Corporation

Jiangyuanxin Technology (Shanghai)

Shanghai Enflame Technology

Kunlunxin (Beijing) Technology

Shanghai Biren Intelligent Technology

Shanghai Tianshu Zhixin Semiconductor

Beijing Moore Threads Technology

Key Questions Answered:

1. How big is the global AI Accelerator PCIe Card market?
2. What is the demand of the global AI Accelerator PCIe Card market?
3. What is the year over year growth of the global AI Accelerator PCIe Card market?
4. What is the production and production value of the global AI Accelerator PCIe Card market?
5. Who are the key producers in the global AI Accelerator PCIe Card market?
6. What are the growth factors driving the market demand?

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