

Global AI Accelerator PCIe Card Market Growth 2026-2032

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Abstracts

The global AI Accelerator PCIe Card market size is predicted to grow from US\$ 4834 million in 2025 to US\$ 13238 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 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.

United States market for AI Accelerator PCIe 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 Accelerator PCIe 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 Accelerator PCIe 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 Accelerator PCIe Card players cover Hitek Systems, NVIDIA, Axelera, ASUS, Hailo, 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 Accelerator PCIe Card Industry Forecast" looks at past sales and reviews total world AI Accelerator PCIe Card sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Accelerator PCIe Card sales for 2026 through 2032. With AI Accelerator PCIe Card sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Accelerator PCIe Card industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Accelerator PCIe 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 Accelerator PCIe Card.

This report presents a comprehensive overview, market shares, and growth

opportunities of AI Accelerator PCIe Card market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single PCIe Card

Dual PCIe Card

Segmentation by PCIe Card Size:

Half-length, Half-height PCIe Card

Half-length, Full-height PCIe Card

Segmentation by Application:

Cloud Servers

Data Centers

Other infrastructure

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.

Hitek Systems

NVIDIA

Axelera

ASUS

Hailo

EdgeCortex

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 Addressed in this Report

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

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

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

How do AI Accelerator PCIe Card market opportunities vary by end market size?
How does AI Accelerator PCIe Card break out by Type, by Application?

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