

Global AI Accelerator PCIe Card for Datacenter Market Growth 2026-2032

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Abstracts

The global AI Accelerator PCIe Card for Datacenter market size is predicted to grow from US\$ 4109 million in 2025 to US\$ 11253 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 for Datacenter production reached approximately 1253.7 k units with an average global market price of around US\$3499 per unit. Single-line annual production capacity averages 60 k units with a gross margin of approximately 40-45%. The AI Accelerator PCIe Card for Datacenter's upstream industry is centered around GPU, FPGA, and ASIC chips, focusing on the high-performance computing sector; the downstream applications are divided into cloud servers (accounting for approximately 60%), data centers (30%), and other infrastructure (10%); demand analysis indicates that with the rapid development of cloud computing and big data, the demand for AI Accelerator PCIe Cards for Datacenter is surging, and the business opportunities are concentrated in the expansion of intelligent computing platforms and edge computing.

The AI Accelerator PCIe Card for Datacenter is a high-performance computing solution designed to significantly enhance the processing capabilities of servers in datacenter environments. By integrating cutting-edge AI algorithms and dedicated hardware acceleration, it delivers unparalleled speed and efficiency in handling complex computations, thereby enabling rapid and accurate data analysis, machine learning, and deep learning tasks. This card is engineered to minimize latency, maximize throughput, and ensure scalability, allowing for seamless integration into existing infrastructure without disrupting operations. It serves as a cornerstone in the evolution of datacenter architecture, providing a robust platform for next-generation applications that demand high computational power and real-time responsiveness.

United States market for AI Accelerator PCIe Card for Datacenter 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 for Datacenter 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 for Datacenter 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 for Datacenter players cover Hitek Systems, NVIDIA, Axelera, ASUS, Huawei, 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 for Datacenter Industry Forecast" looks at past sales and reviews total world AI Accelerator PCIe Card for Datacenter sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Accelerator PCIe Card for Datacenter sales for 2026 through 2032. With AI Accelerator PCIe Card for Datacenter 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 for Datacenter industry.

This Insight Report provides a comprehensive analysis of the global AI Accelerator PCIe Card for Datacenter 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 for Datacenter 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 for Datacenter market.

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

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

Segmentation by Type:

Half-length, Half-height PCIe Card

Half-length, Full-height PCIe Card

Segmentation by Computility:

Low Computing Power

Medium Computing Power

High Computing Power

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

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

Inspur Electronic Information Industry

Key Questions Addressed in this Report

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

What factors are driving AI Accelerator PCIe Card for Datacenter market growth,

globally and by region?

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

How do AI Accelerator PCIe Card for Datacenter market opportunities vary by end market size?

How does AI Accelerator PCIe Card for Datacenter break out by Type, by Application?

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