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

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Abstracts

The global AI Accelerator PCIe Card for Datacenter market size is expected to reach $ 11286 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 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.

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

This report is a detailed and comprehensive analysis of the world market for AI Accelerator PCIe Card for Datacenter 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 for Datacenter that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global AI Accelerator PCIe Card for Datacenter total production and demand, 2021-2032, (K Units)
Global AI Accelerator PCIe Card for Datacenter total production value, 2021-2032, (USD Million)
Global AI Accelerator PCIe Card for Datacenter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global AI Accelerator PCIe Card for Datacenter consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: AI Accelerator PCIe Card for Datacenter domestic production, consumption, key domestic manufacturers and share
Global AI Accelerator PCIe Card for Datacenter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global AI Accelerator PCIe Card for Datacenter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global AI Accelerator PCIe Card for Datacenter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global AI Accelerator PCIe Card for Datacenter 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, Huawei, Beijing Cambricon Technologies Corporation, Jiangyuanxin Technology (Shanghai), Shanghai Enflame Technology, Kunlunxin (Beijing) Technology, Shanghai Biren Intelligent Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities,

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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 for Datacenter 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 for Datacenter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI Accelerator PCIe Card for Datacenter Market, Segmentation by Type:

Half-length, Half-height PCIe Card

Half-length, Full-height PCIe Card

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Global AI Accelerator PCIe Card for Datacenter Market, Segmentation by Computility:

Low Computing Power

Medium Computing Power

High Computing Power

Global AI Accelerator PCIe Card for Datacenter Market, Segmentation by Application:

Cloud Servers

Data Centers

Other infrastructure

Companies Profiled:

Hitek Systems

NVIDIA

Axelera

ASUS

Huawei

Beijing Cambricon Technologies Corporation

Jiangyuanxin Technology (Shanghai)

Shanghai Enflame Technology

Kunlunxin (Beijing) Technology

Shanghai Biren Intelligent Technology

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Shanghai Tianshu Zhixin Semiconductor

Beijing Moore Threads Technology

Inspur Electronic Information Industry

Key Questions Answered:

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

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