

Global PCIe Accelerator Card Market Growth 2025-2031

<https://marketpublishers.com/r/GEEFF00EE3F3EN.html>

Date: August 2025

Pages: 98

Price: US\$ 3,660.00 (Single User License)

ID: GEEFF00EE3F3EN

Abstracts

The global PCIe Accelerator Card market size is predicted to grow from US\$ 477 million in 2025 to US\$ 598 million in 2031; it is expected to grow at a CAGR of 3.8% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A PCIe accelerator card is a high-performance hardware acceleration device based on the PCI Express (Peripheral Component Interconnect Express) interface, which is mainly used to increase the processing speed of computationally intensive tasks. It significantly improves the overall performance of the system by offloading specific computing tasks from the CPU to a dedicated hardware processor. PCIe accelerator cards usually integrate high-performance processors such as GPUs (graphics processing units), FPGAs (field programmable gate arrays), or ASICs (application-specific integrated circuits), and use the high-speed data transmission capabilities of the PCIe interface to communicate with the host system.

The PCIe accelerator card market is gaining significant momentum as enterprises and data centers increasingly adopt specialized hardware to offload and accelerate high-performance workloads. These cards, which plug into servers via PCI Express (PCIe) slots, are designed to boost processing speed, reduce latency, and improve energy efficiency across a wide range of applications such as artificial intelligence (AI), machine learning (ML), high-performance computing (HPC), data analytics, blockchain, and network security. Leveraging GPUs, FPGAs, TPUs, DPUs, and custom ASICs, PCIe accelerator cards enable parallel data processing and real-time inference at scale. The

market is driven by exponential growth in data generation, rising demand for cloud services, edge computing, and the evolution of AI-based workloads in both enterprise and hyperscale environments. Additionally, the expansion of PCIe standards—from Gen3 and Gen4 to Gen5 and beyond—continues to enhance bandwidth and interconnect capabilities, opening new opportunities for low-latency, high-throughput computing.

LP Information, Inc. (LPI) ' newest research report, the “PCIe Accelerator Card Industry Forecast” looks at past sales and reviews total world PCIe Accelerator Card sales in 2024, providing a comprehensive analysis by region and market sector of projected PCIe Accelerator Card sales for 2025 through 2031. With PCIe Accelerator Card sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PCIe Accelerator Card industry.

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

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

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

Segmentation by Type:

GPU

FPGA

ASIC

Segmentation by Application:

Cloud Deployment

Terminal Deployment

Others

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.

NVIDIA

AMD

Intel

Qualcomm

Huawei

IBM

Advantech

Achronix Semiconductor

Cambricon Technologies

Hailo

Key Questions Addressed in this Report

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

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

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

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

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

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