

Global Accelerator Cards Market Growth 2026-2032

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Abstracts

The global Accelerator Cards market size is predicted to grow from US\$ 27225 million in 2025 to US\$ 150654 million in 2032; it is expected to grow at a CAGR of 27.8% from 2026 to 2032.

An accelerator card is a dedicated hardware expansion card installed in a computer or server to accelerate specific types of computing tasks, thereby improving the overall system performance and efficiency. It integrates dedicated processing units (such as GPUs, FPGAs, and ASICs) to 'offload' some computing tasks that were originally performed by the CPU, completing them more efficiently, thus achieving high-performance computing and energy efficiency optimization.

In 2025, global accelerator card sales reached 2.42 million units, with a production capacity of 2.95 million units, an average selling price of US\$11,500 per unit, and an average gross profit margin of 45%-55%.

Upstream core components for accelerator cards include GPUs, ASICs/NPUs, FPGAs, high-bandwidth storage, high-speed interfaces, and power management. The midstream integrates upstream chips and devices into standardized PCIe accelerator cards, handling hardware design, software adaptation, and mass production delivery. Downstream applications primarily target data centers, cloud computing, AI inference, autonomous driving, and industrial vision.

United States market for Accelerator Cards 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 Accelerator Cards 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 Accelerator Cards is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Accelerator Cards players cover NVIDIA, AMD, Intel, Google, Qualcomm, 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 "Accelerator Cards Industry Forecast" looks at past sales and reviews total world Accelerator Cards sales in 2025, providing a comprehensive analysis by region and market sector of projected Accelerator Cards sales for 2026 through 2032. With Accelerator Cards sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Accelerator Cards industry.

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

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

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

Segmentation by Type:

GPU Accelerator Cards

FPGA Accelerator Cards

ASIC Accelerator Cards

CPU Co-Accelerator Cards

Segmentation by Deployment Types:

Pcie Accelerator Card

Modular Accelerator

Embedded Acceleration Module

External Acceleration Device

Segmentation by Technical Implementation:

General Purpose

Special Purpose

Reconfigurable

Segmentation by Application:

AI

High-Performance Computing

Data Centers

Multimedia And Video Processing

Autonomous Driving

Network Information Security

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

Google

Qualcomm

Huawei

Cambricon

Hygon Information

Biren Technology

Enflame Technology

Kunlunxin

Iluvatar CoreX Semiconductor

Key Questions Addressed in this Report

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

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

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

How do Accelerator Cards market opportunities vary by end market size?

How does Accelerator Cards break out by Type, by Application?

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