

Global Accelerator Cards Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Accelerator Cards market size was valued at US\$ 28636 million in 2025 and is forecast to a readjusted size of US\$ 146711 million by 2032 with a CAGR of 26.2% during review period.

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.

This report is a detailed and comprehensive analysis for global Accelerator Cards market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this

report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Accelerator Cards market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2021-2032

Global Accelerator Cards market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2021-2032

Global Accelerator Cards market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (K US\$/Unit), 2021-2032

Global Accelerator Cards market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (K US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Accelerator Cards

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Accelerator Cards market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, AMD, Intel, Google, Qualcomm, Huawei, Cambricon, Hygon Information, Biren Technology, Enflame Technology, etc.

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

new product launches or approvals.

Market Segmentation

Accelerator Cards market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

GPU Accelerator Cards

FPGA Accelerator Cards

ASIC Accelerator Cards

CPU Co-Accelerator Cards

Market segment by Deployment Types

Pcie Accelerator Card

Modular Accelerator

Embedded Acceleration Module

External Acceleration Device

Market segment by Technical Implementation

General Purpose

Special Purpose

Reconfigurable

Market segment by Application

AI

High-Performance Computing

Data Centers

Multimedia And Video Processing

Autonomous Driving

Network Information Security

Major players covered

NVIDIA

AMD

Intel

Google

Qualcomm

Huawei

Cambricon

Hygon Information

Biren Technology

Enflame Technology

Kunlunxin

Iluvatar CoreX Semiconductor

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Accelerator Cards product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Accelerator Cards, with price, sales quantity, revenue, and global market share of Accelerator Cards from 2021 to 2026.

Chapter 3, the Accelerator Cards competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Accelerator Cards breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the

world, from 2021 to 2026.and Accelerator Cards market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Accelerator Cards.

Chapter 14 and 15, to describe Accelerator Cards sales channel, distributors, customers, research findings and conclusion.

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