

Global Accelerator Cards Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G41B83DD5069EN.html>

Date: June 2026

Pages: 126

Price: US\$ 4,480.00 (Single User License)

ID: G41B83DD5069EN

Abstracts

The global Accelerator Cards market size is expected to reach \$ 146711 million by 2032, rising at a market growth of 26.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global Accelerator Cards production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Accelerator Cards total production and demand, 2021-2032, (K Units)

Global Accelerator Cards total production value, 2021-2032, (USD Million)

Global Accelerator Cards production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Accelerator Cards consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Accelerator Cards domestic production, consumption, key domestic manufacturers and share

Global Accelerator Cards production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Accelerator Cards production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Accelerator Cards production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Accelerator Cards 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Accelerator Cards market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K 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 Accelerator Cards Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Accelerator Cards Market, Segmentation by Type:

GPU Accelerator Cards

FPGA Accelerator Cards

ASIC Accelerator Cards

CPU Co-Accelerator Cards

Global Accelerator Cards Market, Segmentation by Deployment Types:

Pcie Accelerator Card

Modular Accelerator

Embedded Acceleration Module

External Acceleration Device

Global Accelerator Cards Market, Segmentation by Technical Implementation:

General Purpose

Special Purpose

Reconfigurable

Global Accelerator Cards Market, Segmentation by Application:

AI

High-Performance Computing

Data Centers

Multimedia And Video Processing

Autonomous Driving

Network Information Security

Companies Profiled:

NVIDIA

AMD

Intel

Google

Qualcomm

Huawei

Cambricon

Hygon Information

Biren Technology

Enflame Technology

Kunlunxin

Iluvatar CoreX Semiconductor

Key Questions Answered:

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

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