

Global AI Compute Accelerator Card Market Growth 2026-2032

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Abstracts

The global AI Compute Accelerator Card market size is predicted to grow from US\$ 185910 million in 2025 to US\$ 648447 million in 2032; it is expected to grow at a CAGR of 16.5% from 2026 to 2032.

An AI Compute accelerator card is a board-level compute product designed to accelerate artificial intelligence training, inference and edge intelligence workloads. It is typically deployed as a PCIe add-in card, OAM/SXM-class accelerator module, M.2 or Mini PCIe module, or embedded edge AI module in data-centre servers, enterprise workstations, industrial PCs, edge gateways, robotics platforms, video analytics appliances and AIoT devices. The product normally integrates a specialised compute processor, such as a GPU/GPGPU, NPU, TPU, RDU, LPU, FPGA or adaptive SoC, together with local memory, power management, thermal design, high-speed host interfaces, firmware, drivers, compilers and model execution software. Its core value lies in accelerating tensor operations, matrix multiplication, low-precision inference, high-bandwidth memory access and multi-card scaling for large-language-model training, generative AI inference, computer vision, recommendation systems, speech and text processing, industrial inspection and localised enterprise AI deployment.

Pricing is highly segmented, ranging from low-cost edge AI modules at tens to hundreds of US dollars, to developer and industrial PCIe cards at hundreds or thousands of dollars, and high-end data-centre accelerators at several thousand to tens of thousands of dollars per unit depending on memory, interconnect, power envelope, software stack and procurement structure.

Based on our research, the AI Compute Accelerator Card industry should not be understood as a simple extension of the traditional graphics-card market. It is a

specialised hardware segment combining parallel compute silicon, high-bandwidth or local memory, board-level power and thermal design, high-speed interfaces, interconnect architecture, firmware, compilers and AI runtime software. Under the narrow scope adopted in this report, the market mainly covers purchasable and integrable accelerator cards and modules, rather than complete AI servers, cloud-computing rental services, consumer graphics cards or pure semiconductor IP. Within this scope, data-centre training and inference accelerators account for the majority of revenue, while edge AI modules account for a broader range of use cases and supplier diversity. The industry is structurally bifurcated: high-end data-centre cards depend on advanced process nodes, HBM supply, packaging, interconnects and software ecosystems, whereas edge AI cards compete on power efficiency, cost, compact form factor, industrial reliability and ease of integration.

From a supply-side perspective, the global market is characterised by one dominant leader, several high-end challengers, regional substitution and a fragmented edge-AI layer. NVIDIA remains the de facto leader in high-end training and large-model inference acceleration, while AMD, Intel, Qualcomm, IBM, Tenstorrent, Groq and SambaNova represent alternative architectural routes in North America. China has developed a broad domestic supplier pool under the combined influence of export controls, sovereign compute demand and large-scale AI infrastructure investment, with Huawei, Cambricon, Enflame, Iluvatar CoreX, Biren, Moore Threads, MetaX, Kunlunxin, Hygon and SOPHGO being the key names to monitor. South Korea, Israel, the Netherlands, Japan and Taiwan are more visible in inference optimisation, edge AI modules, industrial board design and ODM manufacturing, represented by companies such as Hailo, Axelera AI, FuriosaAI, Rebellions, DEEPX, EdgeCortex, Mobilint, SUNIX, AAEON and Inventec.

From a demand perspective, growth in 2025-2026 is primarily driven by large-model training, inference scaling, AI cloud infrastructure, private enterprise AI deployments and sovereign AI compute programmes. Data-centre AI accelerator cards dominate the revenue pool because of their high unit value, dense deployment and concentrated hyperscale purchasing. Edge AI accelerator modules, by contrast, are expanding through industrial vision, robotics, smart surveillance, retail analytics, medical imaging, vehicle-road coordination and local low-latency inference. As AI workloads shift from model training alone to inference-heavy and agentic AI applications, the competitive metric is also shifting from peak TOPS or FLOPS to tokens per watt, memory bandwidth per dollar, software migration cost, multi-card scaling efficiency and supply availability.

LP Information, Inc. (LPI) ' newest research report, the 'AI Compute Accelerator Card

Industry Forecast? looks at past sales and reviews total world AI Compute Accelerator Card sales in 2025, providing a comprehensive analysis by region and market sector of projected AI Compute Accelerator Card sales for 2026 through 2032. With AI Compute Accelerator Card sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world AI Compute Accelerator Card industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for AI Compute Accelerator Card and breaks down the forecast by Form Factor, 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 AI Compute Accelerator Card.

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

Segmentation by Form Factor:

PCIe Add-in Card

OAM / SXM-class Module

M.2 / Mini PCIe Module

Other

Segmentation by Processor Architecture:

GPU / GPGPU Accelerator

AI ASIC / NPU / TPU Accelerator

FPGA / Adaptive SoC Accelerator

Other

Segmentation by Workload Orientation:

Training-oriented Accelerator

Inference-oriented Accelerator

Mixed Training & Inference Accelerator

Edge Real-time Inference Accelerator

Other

Segmentation by Memory Subsystem:

HBM-based High-bandwidth Accelerator

GDDR-based Accelerator

LPDDR / Low-power Memory Accelerator

On-chip SRAM / Local Memory-centric Accelerator

Segmentation by Application:

Hyperscale and Cloud AI Data Centers

Enterprise On-premise AI

Edge AIoT and Industrial Vision

Sovereign AI / HPC

Other

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

Huawei

Intel

Cambricon

Enflame

Qualcomm

Biren

Moore Threads

Iluvatar CoreX

MetaX

Kunlunxin

FuriosaAI

Rebellions

Hailo

Axelera AI

Tenstorrent

IBM

Google Coral

DEEPX

EdgeCortix

MemryX

Mobilint

Blaize

SiMa.ai

Mythic

SOPHGO

Hygon

ASUSTeK

SUNIX

AAEON

Inventec

Key Questions Addressed in this Report

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

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

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

How do AI Compute Accelerator Card market opportunities vary by end market size?

How does AI Compute Accelerator Card break out by Form Factor, by Application?

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