

Global Next-generation AI Accelerator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Next-generation AI Accelerator market size is expected to reach \$ 302492 million by 2032, rising at a market growth of 25.4% CAGR during the forecast period (2026-2032).

Next-generation AI accelerators refer to high-performance computing chips and system-level hardware specifically designed for artificial intelligence training and inference tasks. These include GPUs, TPUs, NPUs, ASICs, IPU, and edge AI SoCs. Their core features are significantly improved efficiency in deep learning model training and inference through massively parallel computing architectures, low-precision mixed-signal computing, high-bandwidth storage, and advanced interconnect technologies. Compared to traditional CPUs, they can achieve performance improvements of tens to hundreds of times, and have become key computing power carriers supporting generative AI, large-scale model training, autonomous driving, and intelligent cloud computing infrastructure.

The next-generation AI accelerator market is rapidly evolving from a 'GPU-driven' model to a 'GPU + ASIC + cloud-developed chip multi-polar architecture.' As the scale of large model parameters continues to expand, inference costs become a core bottleneck, and global cloud vendors accelerate the development of their own chips to replace traditional GPU procurement, the demand for AI computing power is growing exponentially. This is simultaneously driving the upgrade of HBM storage, advanced packaging, Chiplet architecture, and high-speed interconnect technologies. The industry has shifted from simple chip competition to 'system-level AI infrastructure competition.' In the next 5-10 years, AI accelerators will become the core computing power standard configuration of data centers and will deeply penetrate autonomous driving, robotics, industrial AI, and edge intelligent devices, forming a long-term structural growth

supercycle.

This report studies the global Next-generation AI Accelerator demand, key companies, and key regions.

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

Highlights and key features of the study

Global Next-generation AI Accelerator total market, 2021-2032, (USD Million)

Global Next-generation AI Accelerator total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Next-generation AI Accelerator total market, key domestic companies, and share, (USD Million)

Global Next-generation AI Accelerator revenue by player, revenue and market share 2021-2026, (USD Million)

Global Next-generation AI Accelerator total market by Type, CAGR, 2021-2032, (USD Million)

Global Next-generation AI Accelerator total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Next-generation AI Accelerator market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NVIDIA, AMD, Intel, Google, Amazon, Microsoft, Huawei, Cambricon, Horizon Robotics, Alibaba, 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 Next-generation AI Accelerator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), by player, by regions, 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 Next-generation AI Accelerator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Next-generation AI Accelerator Market, Segmentation by Type:

On-premise

Cloud-based

Global Next-generation AI Accelerator Market, Segmentation by Chip Architecture:

GPU

ASIC

NPU

IPU

FPGA

Global Next-generation AI Accelerator Market, Segmentation by Application:

AI Computing Infrastructure

General AI Models and Generative Intelligence

Automotive

Others

Companies Profiled:

NVIDIA

AMD

Intel

Google

Amazon

Microsoft

Huawei

Cambricon

Horizon Robotics

Alibaba

Graphcore

Axelera AI

STMicroelectronics

Samsung

MediaTek

Sony

Renesas

Key Questions Answered

1. How big is the global Next-generation AI Accelerator market?
2. What is the demand of the global Next-generation AI Accelerator market?
3. What is the year over year growth of the global Next-generation AI Accelerator market?
4. What is the total value of the global Next-generation AI Accelerator market?
5. Who are the Major Players in the global Next-generation AI Accelerator market?
6. What are the growth factors driving the market demand?

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