

Global Next-generation AI Accelerator Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Next-generation AI Accelerator market size was valued at US\$ 61770 million in 2025 and is forecast to a readjusted size of US\$ 302492 million by 2032 with a CAGR of 25.4% during review period.

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, IPUs, 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 is a detailed and comprehensive analysis for global Next-generation AI Accelerator market. Both quantitative and qualitative analyses are presented by company, 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 Next-generation AI Accelerator market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Next-generation AI Accelerator market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Next-generation AI Accelerator market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Next-generation AI Accelerator market shares of main players, in revenue (\$ Million), 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 Next-generation AI Accelerator

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 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.

Market segmentation

Next-generation AI Accelerator 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

On-premise

Cloud-based

Market segment by Chip Architecture

GPU

ASIC

NPU

IPU

FPGA

Market segment by Application

AI Computing Infrastructure

General AI Models and Generative Intelligence

Automotive

Others

Market segment by players, this report covers

NVIDIA

AMD

Intel

Google

Amazon

Microsoft

Huawei

Cambricon

Horizon Robotics

Alibaba

Graphcore

Axelera AI

STMicroelectronics

Samsung

MediaTek

Sony

Renesas

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Next-generation AI Accelerator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Next-generation AI Accelerator, with revenue, gross margin, and global market share of Next-generation AI Accelerator from 2021 to 2026.

Chapter 3, the Next-generation AI Accelerator competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Next-generation AI Accelerator market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces

analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Next-generation AI Accelerator.

Chapter 13, to describe Next-generation AI Accelerator research findings and conclusion.

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