

Global Next-generation AI Accelerator Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Next-generation AI Accelerator market size is predicted to grow from US\$ 58726 million in 2025 to US\$ 310057 million in 2032; it is expected to grow at a CAGR of 27.0% from 2026 to 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.

United States market for Next-generation AI Accelerator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Next-generation AI Accelerator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Next-generation AI Accelerator is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Next-generation AI Accelerator players cover NVIDIA, AMD, Intel, Google, Amazon, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LPI (LP Information)' newest research report, the 'Next-generation AI Accelerator Industry Forecast' looks at past sales and reviews total world Next-generation AI Accelerator sales in 2025, providing a comprehensive analysis by region and market sector of projected Next-generation AI Accelerator sales for 2026 through 2032. With Next-generation AI Accelerator sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Next-generation AI Accelerator industry.

This Insight Report provides a comprehensive analysis of the global Next-generation AI Accelerator landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Next-generation AI Accelerator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Next-generation AI Accelerator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Next-generation AI Accelerator and breaks down the forecast by Type, 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 Next-generation AI Accelerator.

This report presents a comprehensive overview, market shares, and growth opportunities of Next-generation AI Accelerator market by product type, application, key players and key regions and countries.

Segmentation by Type:

On-premise

Cloud-based

Segmentation by Chip Architecture:

GPU

ASIC

NPU

IPU

FPGA

Segmentation by Application:

AI Computing Infrastructure

General AI Models and Generative Intelligence

Automotive

Others

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 analyzing the company's coverage, product portfolio, its market penetration.

NVIDIA

AMD

Intel

Google

Amazon

Microsoft

Huawei

Cambricon

Horizon Robotics

Alibaba

Graphcore

Axelera AI

STMicroelectronics

Samsung

MediaTek

Sony

Renesas

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