

Global AI Enhanced HPC Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global AI Enhanced HPC market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

The architecture required for HPC implementations has many similarities with AI implementations. Both use high levels of compute and storage, large memory capacity and bandwidth, and high-bandwidth fabrics to achieve results, typically by processing massive data sets of increasing size. The promise of AI in HPC is that AI models can augment expert analysis of data sets to produce results faster at the same level of accuracy.

China and the United States are two leaders in AI industry. On the AI 100 list (2022) released by CB Insights, the number of companies in the United States ranks first, with more than 70 companies, followed by the United Kingdom, with 8 companies on the list. China and Canada both holds 5 companies on the list. According to data from the China Academy of Information and Communications Technology, the scale of China's core artificial intelligence industry reached ?508 billion in 2022, a year-on-year increase of 18%. From 2013 to November 2022, the cumulative number of patent applications for artificial intelligence inventions in the world reached 729,000, and the cumulative number of applications in China reached 389,000, accounting for 53.4%. However, the Global Artificial Intelligence Innovation Index Report 2021 released by the China Institute of Scientific and Technological Information shows that the overall strength of the United States is still far ahead. The number of artificial intelligence companies in the United States is about 4,670, while China has only 880. China's data center is less than 1/57 of that of the United States.

This report is a detailed and comprehensive analysis for global AI Enhanced HPC 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 AI Enhanced HPC market size and forecasts, in consumption value (\$ Million), 2020-2031

Global AI Enhanced HPC market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global AI Enhanced HPC market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global AI Enhanced HPC market shares of main players, in revenue (\$ Million), 2020-2025

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 AI Enhanced HPC
- 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 AI Enhanced HPC 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 Intel, NVIDIA, YOTTA, DELL, Amazon Web Services, AMD, Fujitsu, Hewlett Packard Enterprise, Lenovo, Penguin Computing, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

AI Enhanced HPC market is split by Type and by Application. For the period 2020-2031, 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

Hardware Accelerated

Software Accelerated

Market segment by Application

Analytics for Financial Services

Industrial

Visualization and Simulation

Biological and Medical

Earth Sciences

Market segment by players, this report covers

Intel

NVIDIA

YOTTA

DELL

Amazon Web Services

AMD

Fujitsu

Hewlett Packard Enterprise

Lenovo

Penguin Computing

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 AI Enhanced HPC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI Enhanced HPC, with revenue, gross margin, and global market share of AI Enhanced HPC from 2020 to 2025.

Chapter 3, the AI Enhanced HPC 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 2020 to 2031

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 2020 to 2025. and AI Enhanced HPC market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of AI Enhanced HPC.

Chapter 13, to describe AI Enhanced HPC research findings and conclusion.

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