

Global Generative AI Data Center 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 Generative AI Data Center market size was valued at US\$ 6774 million in 2024 and is forecast to a readjusted size of USD 20070 million by 2031 with a CAGR of 17.5% during review period.

Generative AI Data Center is a facility specifically designed and optimized to support the workloads of generative artificial intelligence (Generative AI), featuring high power density, advanced cooling technologies, enhanced network infrastructure, modular design, and scalability to meet the unique demands of generative AI model training and inference. Such data centers are capable of delivering high power per rack (typically 5-10 times higher than traditional IT equipment) to support the high-performance computing needs of GPU and TPU clusters. They employ advanced cooling techniques, such as direct-to-chip liquid cooling and immersion cooling, to effectively manage the heat generated by high-density hardware. High-speed interconnects and low-latency networks ensure rapid data transfer between compute nodes, storage systems, and AI models. Additionally, the modular design allows for flexible scaling of power, cooling, and network resources to accommodate varying demands, from small-scale inference tasks to large-scale model training. Furthermore, these data centers prioritize energy efficiency and sustainability, leveraging heat reuse and warm-water cooling technologies to reduce energy consumption and carbon emissions. This ensures that generative AI tasks can run efficiently and reliably while providing a foundation for future AI innovations.

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

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

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

Global Generative AI Data Center 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 Generative AI Data Center

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 Generative AI Data Center 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 Adaptive Computing, IBM, EQUINIX, Air Trunk, STACK, AQ Compute, Sugon, Chayora, Digital Realty, GDS Holdings, etc.

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

Market segmentation

Generative AI Data Center 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

GPU Data Center

CPU Data Center

Others

Market segment by Application

Financial Services

Medical

Smart Manufacturing

Others

Market segment by players, this report covers

Adaptive Computing

IBM

EQUINIX

Air Trunk

STACK

AQ Compute

Sugon

Chayora

Digital Realty

GDS Holdings

Telehouse?

CyrusOne

NTT Global Data Centers

Princeton Digital Group

ST Telemedia Global Data Centres

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 Generative AI Data Center product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Generative AI Data Center 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 Generative AI Data Center 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 Generative AI Data Center.

Chapter 13, to describe Generative AI Data Center research findings and conclusion.

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