

How large is the AI data server





Overview

2 million square feet across three buildings and will house hundreds of thousands of NVIDIA GB200 and GB300 GPUs linked by fiber, which can reportedly circle the globe 4. Explore the world's 10 largest AI data centers in 2026, powering generative AI with massive GPU clusters, gigawatt-scale energy, advanced cooling, and sustainable infrastructure built by global tech giants shaping the future of artificial intelligence. This article is a collaborative effort by Maria Goodpaster, Mark Patel, Pankaj Sachdeva, and Shih-Yung Huang, with Haley Chang and Wendy Yu, representing views from McKinsey's Industrials and Technology, Media & Telecommunications Practices. AI data centers are the purpose-built facilities designed to process complex AI workloads at massive scale. At their core is specialized hardware capable of handling the intense computational demands of modern AI applications, such as the training of large language models or real-time inference for. Download now to stay ahead in the industry! Need more tailored information?

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How large is the AI data server

AI Server Market Size And Share , Industry Report, 2033

AI server market size was at USD 131.65 billion in 2025 and is projected to reach USD 598.12 billion by 2033, at a CAGR of 21.2% from 2026 to 2033

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Amazon opens \$11 billion AI data center Project Rainier in Indiana

Amazon has opened a data center on 1,200 acres of land in Indiana that's dedicated to training and running models from Anthropic. The \$11 billion facility is up and operational, while most

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Aramark Enters Hyperscale AI Data Center Market With Launch of

As hyperscale AI data center development accelerates globally, Aramark today announced the launch of Aramark Nexus(TM), a new platform delivering integrated hospitality and workforce support services for

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AI's Cooling Problem: How Data Centers Are Transforming Water Use

The rise of artificial intelligence (AI) and the rapid deployment of high-performance



accelerated servers have dramatically transformed the energy use of data centers. U.S. data centers now make up about

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AI Server Market Size & Share, Statistics Report 2025

The AI server market was valued at USD 128 billion in 2024 and is expected to grow at a CAGR of 28.2% between 2025 and 2034, driven by the explosive enterprise

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What are 10 Largest AI Data Centers in the World?

Explore the world's 10 largest AI data centers in 2026, powering generative AI with massive GPU clusters, gigawatt-scale energy, advanced

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Microsoft

ServiceLevelAgreements(SLA)forOnlineServices.TheServiceLevelAgreements(SLA) describe Microsoft's commitments for uptime and connectivity for Microsoft Online Services

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What is an AI data center?

An AI data center is a facility that houses the specific IT infrastructure needed to train, deploy and deliver AI applications and services.



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Schneider Electric's data center liquid cooling solutions are purpose-built for AI workloads, GPU servers, and high-density IT environments. With over a decade

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OpenAI's gargantuan data center is even bigger than



OpenAI appears to operate what is described as the world's largest single data center building, with an IT load capacity of around 300 MW and a

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ServiceNow extends agentic AI governance from desktops to data

ServiceNow AI Control Tower is also now included in the NVIDIA Enterprise AI Factory validated design, extending enterprise governance to large-scale model workloads.

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How to Choose the Right Server Solution for Your AI

As AI models grow in complexity and data volumes surge across industries, the infrastructure that supports them becomes mission-critical. A poorly chosen

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How Surging AI Data Center Demand And Big-Name Deals At AMD

We'll now examine how this optimism around data center GPU demand and major AI customer agreements could reshape AMD's existing investment narrative.

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Microsoft's AI datacenters power OpenAI, Microsoft AI, our Copilot capabilities and many more leading AI workloads. The new Fairwater AI datacenter in Wisconsin stands as a remarkable

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Microsoft Unveils World's Biggest AI Datacenter,



Microsoft announced today that it will bring Fairwater, a purpose-built AI datacenter in Mount Pleasant, Wisconsin, online in early 2026. The new site is

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AI's Energy Demand: Challenges and Solutions for a

From powering massive data centers to generating e-waste, AI's environmental footprint is growing fast. In this Q&A, a computer scientist explains

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Accelerate AI & Machine Learning Workflows , NVIDIA

NVIDIA Run:ai accelerates AI and machine learning operations by addressing key infrastructure challenges through dynamic resource allocation, comprehensive AI

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AI Server Market Size & Share 2025-2032

The AI Server Market size was estimated at USD 115.69 billion in 2024 and expected to reach USD 136.49 billion in 2025, at a CAGR of 18.38% to reach USD 446.28 billion by 2032.

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The \$7 trillion race for AI data center infrastructure , McKinsey

We explore how the global demand for AI data center infrastructure is fueling a \$7 trillion race to power the future of artificial intelligence.

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25+ AI Data Center Statistics & Trends (2025 Updated)

By 2025, approximately 33% of global data center capacity will be dedicated to AI applications, a figure expected to reach 70% by 2030. The United



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Frequently Asked Questions How much electricity does a typical data center use compared to homes? A single large hyperscale data center can

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