

Large-scale AI servers



Overview

Find top large scale AI servers with NVIDIA H100 GPUs, liquid cooling, and PCIe Gen5. Artificial Intelligence (AI) server manufacturers have experienced surging demand as data center operators require significantly more computing power than before the advent of ChatGPT and other Generative Artificial Intelligence (Gen AI) tools. Enterprises are investing billions of dollars in cloud. AI servers are in high demand, and choosing the right one depends on your workloads and budget. Some enterprises look for the very latest models, while others achieve the same results by selecting proven, widely available refurbished systems at a lower cost. Engineered to be the heart of large-scale AI infrastructure, Cisco AI GPU servers enable training, fine-tuning, and. Behind every smart AI algorithm is a powerhouse of raw computing: servers that process billions of calculations per second, data centers that consume as much power as small cities, and specialized hardware built to handle AI's relentless demands. Run complex models, including LLMs, NLP, computer vision, and deep learning, at full speed with dedicated.



Article Content

Mass-Scale AI Infrastructure

Scale your AI clusters with dense-GPU servers designed to provide the raw power for handling the most demanding AI workloads.

AI Server Hosting | Scalable, High-Speed GPU Power for LLMs

Accelerate deep learning and AI with servers built for model training, LLM workloads, and large-scale inference. Configure or

Meta's Infrastructure Evolution and the Advent of AI

We also have an even larger cluster, Hyperion, expected to come online beginning in 2028.

AI Servers | Artificial Intelligence Infrastructure Solutions

Explore Lenovo AI servers to help businesses accelerate and scale AI solutions efficiently while managing and protecting all data.

Inside the world's most powerful AI datacenter

This week we have introduced a wave of purpose-built datacenters and infrastructure

Building Meta's GenAI Infrastructure

Commitment to open AI innovation Meta maintains its commitment to open innovation in AI software and hardware.

Hyperscale Data Centers: Cost, Scale, and How They Work

A hyperscale data center holds 5,000+ servers and draws at least 40 MW of power. Standard builds cost \$10.7M per

The cost of compute power: A \$7 trillion race | McKinsey

Amid the AI boom, compute power is emerging as one of this decade's most critical

AI Infrastructure

Nscale's AI data centers combine multi-megawatt power, engineered cooling, and dense GPU server systems to meet the demands

AI, Data Centers, and the U.S. Electric Grid: A Watershed Moment

What impact is high frequency oscillation in large-scale AI training jobs having on energy generation systems and the

What is an AI Server? AI Server Architecture Explained

These GPUs can train large-scale AI models faster and improve AI server performance in various ways. When this is

NVIDIA and AWS Collaborate to Bring AI to Production at Scale

Across Amazon OpenSearch and Amazon EC2, NVIDIA AI infrastructure is giving enterprises more practical paths to

Hardware Recommendations for Large Language Model Servers

Hardware Recommendations for Scaling AI Deployments Our hardware recommendations for large language model (LLM) AI

Huge Memory AI Server Aims to Shatter the Memory Wall

A huge memory AI server with 128TB DRAM and blazing bandwidth shatters memory limits, enabling faster, cheaper

AI Server and Infrastructure Solutions

ASUS offers AI infrastructure solutions, including AI servers, integrated racks for large-scale computing,

AI Capex 2026: The \$690B Infrastructure Sprint

2026 AI capex plans of Microsoft, Amazon, and Alphabet as spending hits \$700B. Will AI revenues justify

China's Moonshot AI releases Kimi K3, the largest open ...

Moonshot AI released Kimi K3, a 2.8 trillion-parameter open-source AI model from China that rivals OpenAI, Anthropic

AI Infrastructure Server Solutions For Enterprise | Supermicro

Unlock the full potential of AI with Supermicro's cutting-edge AI-ready infrastructure solutions. From large-scale training to intelligent

What is a hyperscale data center?

What is a hyperscale data center? A hyperscale data center is a massive data center that provides

The Best AI Servers for Enterprises: Dell, HPE, Lenovo,

Explore top AI servers with NVIDIA H100 and A100 GPUs. Dell, HPE, Lenovo, and

Top Five AI Server Companies for Data Centers and

This ABI Research competitive assessment ranks the top five AI server companies worldwide.

AI Servers in 2025: What Hardware is Needed to Run LLMs and

Discover essential hardware for AI servers in 2025, focusing on requirements for LLMs and neural networks. Learn

xAI Colossus Hits 2 GW: 555,000 GPUs, \$18B, Largest AI Site

Musk's xAI purchases third Memphis building for 2 GW total capacity. 555,000 NVIDIA GPUs at \$18B makes Colossus

Trainium3 UltraServer delivers faster AI training at lower

Trainium3 UltraServers deliver high performance for AI workloads with up to 4.4x more

Enabling large-scale sovereign AI data centres

To receive an intake form please email ai-infrastructure-ia@ised-isde.gc.ca. Criteria
The Government of Canada is seeking

10 Largest AI Data Centers in the World (2026): All You Need to Know

What are 10 Largest AI Data Centers in the World? Explore the world's 10 largest AI data centers in 2026, powering

The AI Servers Powering The Artificial Intelligence Boom

The servers' modular, standards-based platform supports the multiple GPU technologies in a variety of form factors

Dense AI GPU Servers with NVIDIA HGX and AMD

Train trillion-parameter LLMs, run advanced simulations, and more with dense AI GPU servers that deliver

AI data center

AI data center An AI data center is a specialized data center facility designed for the computationally

AI Infrastructure Server Solutions For Enterprise | Supermicro

Large Scale AI Training & Inference Large Language Models, Generative AI Training, Autonomous Driving, Robotics Large-scale AI

Microsoft's strategic AI datacenter planning enables

Blog home Microsoft's strategic AI datacenter planning enables seamless, large-scale

AI's Energy Demand: Challenges and Solutions for a Sustainable Future

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

AI Server Companies Driving AI Innovation in 2025

These companies design, manufacture, and operate AI-optimized servers tailored for deep learning, large-scale AI

GB200 NVL72 | NVIDIA

The NVIDIA GB200 NVL72 delivers 30X faster real-time large language model (LLM) inference, supercharges AI training, and

Best AI Servers in 2026: HGX, DGX & More Ranked

The best AI servers in 2026, ranked: 8 GPU systems from a PCIe L40S inference node to a rack-scale GB200 NVL72,

Building the 800 VDC Ecosystem for Efficient, Scalable AI Factories

For decades, traditional data centers have been vast halls of servers with power and cooling as secondary

Environmental impact and net-zero pathways for sustainable artificial ...

To capture the current and future distributions of AI server capacity, we compiled data of current and in-construction

DGX Platform: Built for Enterprise AI | NVIDIA

The Pioneering Platform for AI Factories Unlock productivity with the NVIDIA DGX platform, a complete AI solution with full-stack,

AI Data Centers: Scaling Up and Scaling Out

Executive Summary This document provides in-depth commentary on the technical building blocks enabling scaling up and scaling

Contact Us

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