Servers compatible with AI computing

Overview

This article explains what GPU servers are, why they matter for AI and how teams can access GPU compute through cloud platforms, dedicated instances, bare-metal servers or hybrid setups. Modern AI models are data-hungry, computation-heavy beasts that need specialized hardware just to function, let alone perform at their best. That's the job of an AI server—a custom-built system that keeps AI applications fast, scalable, and efficient. Unlike full-scale LLM deployments, task specific AI workloads don't need. The new Cisco UCS X580p GPU node with UCS X-Fabric delivers GPU-dense performance, scalable fabrics, unified management, and supports NVIDIA RTX Pro 4500 and 6000 Blackwell Server Editions GPUs. Testing conducted by Dell in July of 2024. Performed on PowerEdge XE9680 with 8x Nvidia H200 GPUs and XE9680 with Nvidia H100 GPUs. 1 Llama2. Dell's AI Factory platform (e. PowerEdge XE97xx/XE9712) provides high-density rack-scale clusters (72 GPUs per rack with NVLink, ~30× LLM inference speed-up and up to 25× energy efficiency advantage over prior-gen systems ()) with both liquid- and air-cooled options.

Article Content

On-Prem AI Infrastructure: Comparing Dell, HPE, & More

Compare on-prem AI infrastructure from Dell, HPE, Lenovo, Supermicro & Cisco. Analyze NVIDIA GB200/GB300 NVL72 and Blackwell Ultra hardware specs,

PowerEdge AI Servers with GPU Acceleration | Dell USA

Unlock exceptional performance and efficiency with PowerEdge accelerated compute servers. Maximize operational productivity and deliver transformative

The C480G is a professional-grade 4U chassis

The C480G is a professional-grade 4U chassis engineered specifically for the demands of Edge AI and Inference. With a compact 480mm depth and massive

AI Server

AI servers accelerate model training and real-time inference, delivering powerful computing with CPUs, GPUs, and specialized AI accelerators. Their scalable

The Best AI Servers for Enterprises: Dell, HPE,

Explore top AI servers with NVIDIA H100 and A100 GPUs. Dell, HPE, Lenovo, and Supermicro systems built for HPC, deep learning, and

NVIDIA Supercharges Hopper, the World''s Leading AI

NVIDIA today announced it has supercharged the world''s leading AI computing platform with the introduction of the NVIDIA HGX™ H200.

Supermicro Data Center Server, Blade, Data Storage,

Server-grade Performance and AI Inferencing at the Edge Short-depth Servers for Remote and Embedded Workloads Motherboards and chassis designed for high

Upgrade GitLab 17 to GitLab 18: Step by Step

Upgrade a GitLab self-managed install from 17 to 18 safely: backup, version path, background migrations, and post-upgrade verification.

LM Studio

Run local AI models like gpt-oss, Llama, Gemma, Qwen, and DeepSeek privately on your computer.

Cisco UCS X-Series for AI

Cisco UCS X-Series redefines AI infrastructure flexibility. Mix GPU and CPU nodes in one modular chassis with X-Fabric for high-bandwidth, low-latency connectivity.

Canonical releases Ubuntu 26.04 LTS Resolute Raccoon

Furthermore, Ubuntu 26.04 LTS delivers both guest and host support for confidential computing on both Intel® Trust Domain Extensions and AMD SEV, enabling confidential AI use cases with silicon-level

Alibaba Cloud to build own servers with new in-house chip

Chinese tech giant says it has built its own server chip, called Yitian 710, which is touted to be compatible with the latest Armv9 architecture and will

MGX Platform for Modular Server Design | NVIDIA

AI workloads demand more than traditional servers can deliver. NVIDIA MGX™ provides a modular reference architecture that enables OEMs, ODMs, and

HPE ProLiant for Artificial Intelligence | HPE

Accelerate AI inference at the edge and in the data center with HPE ProLiant for AI—purpose-built server solutions optimized for performance, scale, and

Recommended Server Solutions For AI

Build a system that matches your exact AI workload requirements. Choose the right GPU, CPU, RAM, and storage without paying for unused cloud

GPU servers for AI: ways to access GPU compute

Explore different ways to access accelerated compute for AI workloads, including cloud servers, on-premise setups, bare-metal servers, and

ITPro Today, Network Computing, IoT World Today combine

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

7 Best LLM Tools To Run Models Locally (May 2026)

This desktop platform lets you download popular AI models like Llama 3, Gemma, and Mistral to run on your own computer, or connect to cloud

PowerEdge AI Servers with GPU Acceleration | Dell USA

Boost AI, generative AI, and compute-intensive workloads with servers that offer a variety of powerful GPU accelerators.

High Performance Data Store for AI & Analytics | MinIO

Exascale data infrastructure for AI, agentic computing, and analytics. MinIO AIStor natively supports S3 for objects, Iceberg for tables, and SFTP for files.

The AWS MCP Server is now generally available | AWS News Blog

AWS announces the general availability of the AWS MCP Server, a managed remote Model Context Protocol (MCP) server that gives AI agents and coding assistants secure,

Chenbro launches Nvidia MGX server chassis solutions

With the rapid growth of AI, high-performance computing (HPC), and cloud computing, data centers face increasing challenges regarding

Artificial Intelligence (AI) Servers – Intel

Explore key considerations for AI servers and how to design them to support AI workloads optimally.

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OpenAI-Compatible Server

Chat API ¶ Our Chat API is compatible with OpenAI''s Chat Completions API; you can use the official OpenAI Python client to interact with it. We support both Vision - and Audio -related parameters; see

AI Servers | Artificial Intelligence Infrastructure Solutions | Lenovo US

Explore Lenovo AI servers to help businesses accelerate and scale AI solutions efficiently while managing and protecting all data. Boost your business with our top-tier AI server technologies and

What is a Hybrid Cloud?

AI/ML applications, analytics, and real-time data processing require powerful cloud computing resources. Businesses run big data analytics in a

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