

AI supercomputer server





Overview

AI Hypercomputer is a supercomputing system that is optimized to support your artificial intelligence (AI) and machine learning (ML) workloads. NVIDIA Vera Rubin NVL72 unifies leading-edge technologies from NVIDIA—72 Rubin GPUs, 36 Vera CPUs, ConnectX®-9 SuperNIC™s, and BlueField®-4 DPUs. It scales up intelligence in a rack-scale platform with the NVIDIA NVLink™ 6 switch and scales out with NVIDIA Quantum-X800 InfiniBand and Spectrum-X™. Construction began in 2024 in Memphis, Tennessee; the system became operational in July 2024. Extreme AI Performance: Powered by NVIDIA® GB10 Grace Blackwell Superchip delivering 1 petaFLOP of AI. The World's Largest AI Supercomputer Powered by Supermicro Liquid-Cooled SuperCluster xAI's Colossus supercomputer cluster achieves massive scale using the NVIDIA Spectrum-X Ethernet networking platform to connect 100,000 NVIDIA Hopper Tensor Core GPUs.



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xAI Colossus

Supermicro accelerates the industry's transition to liquid-cooled AI data centers to deliver a new paradigm of energy efficiency for the rapidly-heightened demand of

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Canada on track for a top 10 AI supercomputer, Solomon says

Canada is on track to build an AI supercomputer so powerful it could crack the top 10 to 15 globally, says Evan Solomon. Find out more.

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Landmark Canada AI Supercomputer: \$890M Federal Initiative

Canada AI Supercomputer gets \$890 million through the AI Sovereign Compute Infrastructure Program. Applications open until June 1, 2026.

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Tesla Dojo: The rise and fall of Elon Musk's AI

Dojo was going to be Tesla's custom-built supercomputer. Here's what Elon Musk had in mind, what happened, and what's coming next.

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Super Micro Computer Just Launched a New AI Server.

Supermicro stock inches higher as the company launches a new AI server. Attractive valuation and a strong backlog warrants owning SMCI shares in

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HPE unveils next-generation AI factory and supercomputing

HPE brings NVIDIA AI solution to its industry-leading supercomputing platform. Research laboratories, sovereign entities and large enterprises are rapidly adopting AI to enhance

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SpaceX AI signs agreement with Anthropic for massive AI supercomputer

SpaceX AI announced today that it had signed an agreement with Anthropic to give the company access to its Colossus 1 data center in Memphis, Tennessee.

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ASUS Ascent GX10 AI Supercomputer/NVIDIA GB10



The ASUS Ascent GX10, accelerated by the NVIDIA GB10 Grace Blackwell Superchip and the NVIDIA AI software stack, provides a full-stack solution for AI

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Super Micro Computer (SMCI) Valuation After Guidance Cut, AI Server

Super Micro Computer (SMCI) has been on many watchlists after it cut Q1 FY2026 revenue guidance due to delayed AI deliveries, yet reiterated an aggressive full-year growth outlook

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Supermicro Expands AI Lineup: New Liquid-Cooled Servers

Super Micro Computer (SMCI) stock climbs 3% after expanding its AI server lineup with new liquid-cooled systems. See why analysts project revenue to soar to \$12.44 billion in tomorrow's

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Colossus (supercomputer)

Both Dell Technologies and Supermicro partnered with xAI to build the supercomputer. It was originally powered by 100,000 Nvidia graphics processing

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Super Micro Computer Stock Surges 7% as AI Server Demand Fuels

Super Micro Computer Inc. shares jumped more than 7% in morning trading Friday, climbing to \$24.93 as investors appeared to look past recent governance and legal concerns and

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ASUS Announces Availability of ASUS Ascent GX10



ASUS today announced that the new Ascent GX10 will be available on October 15, 2025. This compact and powerful desktop AI supercomputer is

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Colossus: The World's Largest AI Supercomputer , xAI

We're running the world's biggest supercomputer, Colossus. Built in 122 days--outpacing every estimate--it was the most powerful AI training system yet.

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ASUS Ascent GX10|Desktop AI

Its compact design facilitates seamless integration and deployment, enabling powerful AI performance for innovators who demand excellence. With advanced

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NVIDIA DGX Spark: The developer's personal AI

Canonical has supported Arm processors since 2011, establishing Ubuntu as a scalable platform for AI on both servers and devices. This long

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Project Ceiba - Largest AI Super Computer Co-Built

Project Ceiba, a groundbreaking collaboration between AWS and NVIDIA, aims to push the boundaries of artificial intelligence (AI) by constructing one of world's

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Elon Musk Gets Just-Launched NVIDIA DGX

The revolution begins at Starbase. NVIDIA CEO Jensen Huang kicks off the rollout of DGX Spark, the world's smallest AI supercomputer, with

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Inside the NVIDIA Vera Rubin Platform: Six New Chips,

ASTRA provides AI infrastructure builders with a single, trusted control point to securely provision, isolate, and operate large-scale AI environments

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UK unveils £45m Sunrise AI supercomputer to accelerate fusion

UK launches Sunrise, a £45m AI supercomputer designed to accelerate fusion energy research. Find out more.

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Asus' mini supercomputer taps Nvidia Grace Blackwell



Desktops Mini PCs Asus' mini supercomputer taps Nvidia Grace Blackwell chip for 1,000 AI TOPS News By Zhiye Liu published March 18, 2025

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ASUS Presents Comprehensive AI Server Lineup

In partnership with NVIDIA®, Intel® and AMD®, ASUS offer comprehensive AI-infrastructure solutions with robust software platforms and services, from entry-level AI servers and

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Super Micro's Q4 Results Miss Estimates, Shares Plunge Amid AI Server

Super Micro's Q4 Performance Falls Short Super Micro Computer, a prominent player in the server industry, reported disappointing fourth-quarter results for the fiscal year 2025, causing its

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AI Hypercomputer overview , Google Cloud Documentation

AI Hypercomputer is a supercomputing system that is optimized to support your artificial intelligence (AI) and machine learning (ML) workloads. It's

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UK's \$300M Isambard-AI supercomputer officially launches

Isambard-AI, the fastest supercomputer in the U.K., was officially inaugurated this week, with the £225 million (\$300 million) system set to power

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