

AI Server under GB200 Architecture



Overview

The NVIDIA DGX GB200 system (Figure 3. 1) is an AI powerhouse that enables enterprises to expand the frontiers of business innovation and optimization. The NVIDIA DGX SuperPOD: Next Generation Scalable Infrastructure for AI Factories Reference Architecture Featuring NVIDIA DGX GB200 is also available as a PDF. Abstract The NVIDIA DGX SuperPOD architecture has been designed to power the next-generation AI factories with unparalleled. To meet that demand, Dell Technologies has introduced a new class of AI optimized servers: the Dell PowerEdge XE8712, purpose built for racks running the latest NVIDIA GB200 Grace Blackwell architecture. In this blog, we break down what makes this platform different and share lab results that show. The NVIDIA GB200 functions as a unified high-performance computing system by combining a Grace CPU and two Blackwell GPUs. These components are interconnected via high-bandwidth NVLink-C2C, enabling seamless data transfer and scalability. These GPUs have different interconnect architectures within clusters. 4 TB of unified GPU memory, and 1. Cloud providers sell access at the Superchip or rack-node level, not as individual GPU slots.



Article Content

Jun 17, 2026

PowerEdge XE8712 with NVIDIA GB200: A High-Density

To meet that demand, Dell Technologies has introduced a new class of AI optimized servers: the Dell PowerEdge XE8712, purpose built for racks running the latest NVIDIA GB200

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Inside Amazon's "Titus" Push to Future-Proof AI Data Centers

Amazon plans \$200 billion in capex this year. A chunk of that is being spent on AI data centers. Titus is a plan to "future proof" these facilities.

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NVIDIA Data Center GPU Specs: A Complete

Updated 2026 comparison of NVIDIA data center GPUs: Blackwell Ultra B300, B200, GB200 NVL72, H100, H200, A100 & L40S — specs, FLOPS, NVLink, cloud

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NVIDIA Grace CPU and Arm Architecture | NVIDIA

NVIDIA GB200 NVL4 unlocks the future of converged HPC and AI, delivering revolutionary performance through four NVIDIA Blackwell GPUs connected with

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Supercharge AI Tasks with the NVIDIA GB200

Future Outlook: GB200 empowers AI Cloud and Cloud GPU adoption, helping organizations drive innovation, reduce latency, and scale AI solutions

Jun 24, 2026

NVIDIA GB200 AI Chip : Architecture, Working & Its

This Article Elaborates on a Powerful Chip Built on the Blackwell Architecture, NVL72 System, AI Performance, Cooling System, & Applications.

Oct 02, 2025

Hardware — NVIDIA DGX GB Rack Scale Systems

Hardware # DGX Grace Blackwell rack scale systems are rack scale solutions for graphics processing units (GPUs) connected by NVLink through the

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AI servers and modular data center solution among

HPE has partnered with Nvidia to launch a host of AI-focused offerings, including new servers that support the chipmaker's Blackwell and

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NVIDIA GB200 AI Chip : Architecture, Working & Its

Engineers designed this module primarily for demanding AI and high-performance computing workloads. It is a significant component within the GB200 NVL72

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NVIDIA Blackwell HGX™ B300, B200 and GB200

Supermicro's latest NVIDIA HGX™ B300/B200 server and GB200 NVL72 rack, Blackwell Architecture-powered solutions offer unprecedented performance, and

Nov 06, 2025

The Engine Behind AI Factories | NVIDIA Blackwell

Explore the groundbreaking advancements the NVIDIA Blackwell architecture brings to generative AI and accelerated computing. Building upon generations of NVIDIA

Oct 07, 2025

NVIDIA GTC San Jose 2026 Session Catalog

Browse the GTC 2026 Session Catalog for tailored AI content. March 16–19 in San Jose to explore technical deep dives, business strategy, and industry insights.

Jan 16, 2026

NVIDIA GB200 NVL72 Guide: Specs, Pricing

The GB200 NVL72 is NVIDIA's rack-scale AI system housing 72 B200 GPUs and 36 Grace ARM CPUs across 36 GB200 Superchips. Each

Aug 14, 2025

NVIDIA's "Blackwell Ultra" GB300 AI Servers to Lead the

NVIDIA's GB300 servers are expected to be the dominant offering for hyperscalers next year, and as a result, shipments are projected to rise.

Jan 14, 2026

NVIDIA Blackwell Platform Arrives to Power a New Era

Powering a new era of computing, NVIDIA today announced that the NVIDIA Blackwell platform has arrived — enabling organizations everywhere to

Jan 23, 2026

How CoreWeave became NVIDIA's top GPU cloud partner in 2025: A

In 2025, CoreWeave became one of the first cloud providers to deploy Dell Technologies' (NYSE: DELL) next-generation PowerEdge servers optimized for Blackwell GPUs. Dell's IR7000

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Inside the world's most powerful AI datacenter

This week we have introduced a wave of purpose-built datacenters and infrastructure investments we are making around the world to support the

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GB200 NVL72 | NVIDIA

Compatible with liquid-cooled NVIDIA MGX™ modular servers, it provides up to 2x performance for scientific computing, AI for science training, and inference

Jul 15, 2025

Data Center Liquid Cooling for AI Workloads (2026) · KAD

As accelerator thermal design power (TDP) pushes beyond 1,000W in the era of NVIDIA Blackwell and Rubin-class architectures, traditional air cooling

Oct 24, 2025

NVIDIA Blackwell Platform Boosts Water Efficiency by

Liquid Cooling in Action Innovators across the industry are leveraging liquid cooling to slash energy costs, improve density and drive AI efficiency:

May 10, 2026

GB200 Hardware Architecture

We share estimates of the year-over-year change in BMC demands for general servers and AI servers based on the GPU/accelerator shipments in our

Sep 13, 2025

NVIDIA DGX SuperPOD: Next Generation Scalable Infrastructure for

NVIDIA DGX SuperPOD with NVIDIA DGX GB200 systems is the next generation of data center scale architecture to meet the demanding and growing needs of AI training and inferencing.

Dec 01, 2025

HPE Ships First NVIDIA Blackwell GB200 System With

HPE debuts groundbreaking NVIDIA GB200 NVL72 with 72 Blackwell GPUs, featuring 13.5TB memory and liquid cooling for trillion-parameter AI models.

Apr 29, 2026

NVIDIA B200 vs B300 vs GB200 vs GB300: AI Cluster Interconnect ...

The evolution from B200 to B300 and from GB200 to GB300 reflects a broader shift in AI infrastructure design. Modern GPU clusters increasingly rely on higher network bandwidth, improved switch

Aug 13, 2025

NVIDIA GPU Cluster Interconnect:

This system analyzes the cluster interconnection architecture of NVIDIA B200/B300/GB200/GB300, covering DGX, NVL72 form factors and

Oct 09, 2025

Supercharge AI Tasks with the NVIDIA GB200

NVIDIA GB200's Blackwell architecture boosts AI performance, improving efficiency in healthcare, finance, and automotive industries

Mar 24, 2026

Chenbro launches Nvidia MGX server chassis solutions

Chenbro is building ecosystems around these architectures and will continue collaborating with NVIDIA and global clients to introduce next-generation

Contact Us

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