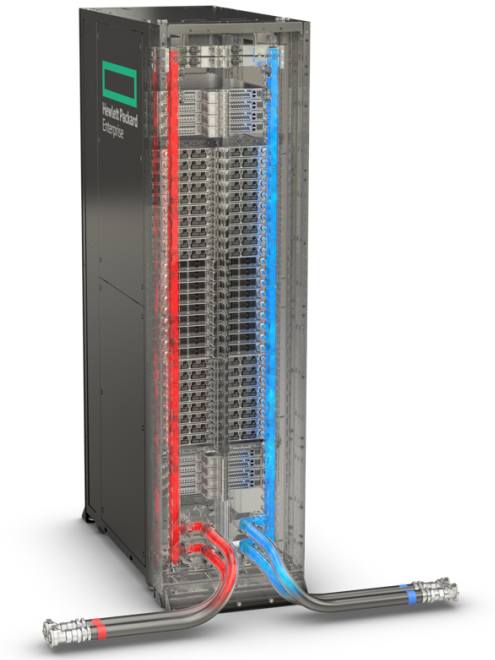
NVIDIA GB200 NVL72 by HPE



What's new

- 72 NVIDIA Blackwell GPUs and 36 NVIDIA Grace CPUs interconnected through high-speed NVIDIA® NVLink™
- Up to 13.5 TB total HBM3E memory with 576 TB/s bandwidth
- 48 RU MGX rack
- NVIDIA BlueField®-3 data processing units
- HPE direct liquid cooling technology
- HPE Services

Overview

Do you need a highly performant solution for training or inferencing of AI models over one trillion parameters? The NVIDIA GB200 NVL72 by HPE offers seamless integration of NVIDIA CPUs, GPUs, compute, switch trays, networking, and software. This powerful solution features a high-bandwidth, low-latency NVIDIA® NVLink™ interconnect to create a 72 GPU single shared-memory space. Combined with HPE advanced direct liquid cooling technology and its industry-leading services and support, this offering delivers extreme performance, scalability, and efficiency for the largest AI models. HPE Services provides expertise for global installation and quick deployment of large AI clusters, helping enable stability and operational excellence, including vast experience with large direct-liquid cooled environments.

Features

Customer Experience

The NVIDIA GB200 NVL72 by HPE is supported by our extensive global installation, deployment, and support capabilities through HPE Services.

HPE teams of deployment engineers and project managers meet your delivery schedule to help enable your system is up and running as quickly as possible, at optimal performance with personalized customer deployment services.

High performance computing (HPC) and AI custom support services are tailored to meet your individual environment and customer requirements. With several levels of SLA coverage, we provide enhanced incident management with proactive support through dedicated remote and resident engineers.

We offer comprehensive on-site support through highly trained resident engineers, who work closely with your IT teams to help enable system availability and performance.

Our industry-leading performance engineering and benchmarking team is available to fine-tune your solution throughout the life of the system.

Advanced Direct Liquid Cooling from HPE

The NVIDIA GB200 NVL72 by HPE features a mix of air and liquid cooling to meet its demanding power requirements. Each rack consumes 132 kW of power, with 115 kW liquid cooled and 17 kW air cooled.

Hewlett Packard Enterprise offers proven in-row and rack mounted liquid cooling solutions validated for NVL72.

HPE brings five decades of innovation in liquid cooling and the expertise coming from delivering the world's largest direct-liquid cooled environments. [1]

HPE helps you prepare, deploy, test, and operate direct-liquid cooled environments with services such as site readiness assessment and planning, installation, connecting power/cooling, adding coolant, commissioning coolant distribution unit (CDU), leak detection, and thermal monitoring.

HPE experts can help with stabilization and ongoing support once the liquid-cooled environment is in operation.

Extreme Performance

The NVIDIA GB200 NVL72 by HPE system provides a unified, high-speed fabric that reduces communication bottlenecks, and boosts performance in scenarios that demand fast, efficient GPU-to-GPU data exchange.

The solution features a high-bandwidth, low-latency NVIDIA® NVLink™ interconnect to create a 72 GPU single shared memory space.

NVIDIA Grace CPUs and NVIDIA Blackwell GPUs offer cutting-edge top-tier processing power and efficiency.

NVIDIA liquid cooled compute trays provide the necessary infrastructure to support high-density computing and NVIDIA® NVLink™ Switch trays facilitate high-speed GPU-to-GPU interconnects for optimal data flow.

NVIDIA InfiniBand networking provides robust and reliable connectivity across the system.

Technical specifications	NVIDIA GB200 NVL72 by HPE
Drive supported	1x 1.92 TB M.2 SSD—Boot Drive, 8x 3.84 TB E1.S NVMe—Storage
Processor type	NVIDIA
Processor family	Grace with Arm® Neoverse V2
Processor core available	72 Cores per Grace Processor, 2592 Cores total
Processor cache	114 MB L3 cache per CPU
Processor number	36
Processor speed	3.1 GHz base frequency
Memory type	LPDDR5x
Maximum memory	480 GB usable
Memory protection features	ECC
Infrastructure management	Compute Tray: OpenBMC, Redfish® APIs, 1GbE LAN
Power supply type	6-8x 1U 33 kW (6x 5.5 kW PSUs) DC Power Shelfs with 50V DC Bus Bar
System fan features	Air and direct liquid cooling (DLC)
Form factor	48U Rackscale System
Warranty	This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of HPE authorized channel partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Services operational services or customized service agreements. Hard drives have either a one-year or three-year warranty; see the specific hard drive QuickSpecs for details. Note: Server warranty includes 3-year parts, 3-year labor, 3-year on-site support with next business day response.
Accelerators	NVIDIA Blackwell B200

[1] HPE is recognized as a leader in direct liquid cooling technology, having built 7 of the top 10 world's fastest supercomputers.

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Advisory & Professional services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Support services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

— **HPE Complete Care Service:** a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.

— **HPE Tech Care Service:** the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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