

NVIDIA H200 Tensor Core GPU on AceCloud

Supercharging Generative AI and HPC Workloads



The **NVIDIA H200 Tensor Core GPU**, powered by the NVIDIA Hopper™ architecture, delivers breakthrough performance for **generative AI, large language models (LLMs), and high-performance computing (HPC)**. Available on AceCloud's enterprise-grade infrastructure, the H200 provides **larger memory, faster bandwidth, and unparalleled inference efficiency**, enabling enterprises to scale AI and scientific workloads with confidence.

Higher Performance with Larger, Faster Memory

The NVIDIA H200 is the first GPU to feature **141 GB of HBM3e memory** with **4.8 TB/s of memory bandwidth** nearly double the capacity of the H100 and 1.4X more bandwidth

This enhanced memory architecture accelerates **LLMs, generative AI applications, and HPC simulations**, while reducing energy usage and total cost of ownership. Organizations gain faster results, more efficient scaling, and the ability to handle even the most demanding AI pipelines.

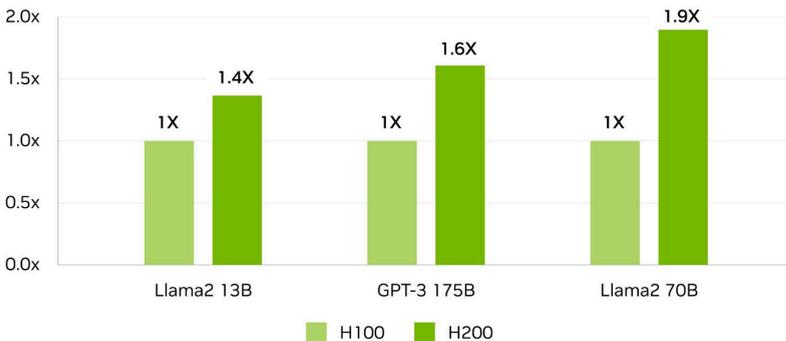
Key Features

- 141GB of HBM3e GPU memory
- 4.8TB/s of memory bandwidth
- 4 petaFLOPS of FP8 performance
- 2X LLM inference performance
- 110X HPC performance

Unlock Insights with High-Performance LLM Inference

For large-scale AI adoption, inference throughput is critical. The H200 delivers **2X the inference performance of the H100**, making it ideal for running advanced LLMs like **Llama 2 70B** at scale. This makes the H200 a powerful choice for enterprises deploying AI-driven services to millions of users, ensuring performance, scalability, and cost efficiency in production environments.

Up to 2X the LLM Inference Performance



Preliminary specifications. May be subject to change.

Llama2 13B: ISL 128, OSL 2K | Throughput | H100 SXM 1x GPU BS 64 | H200 SXM 1x GPU BS 128

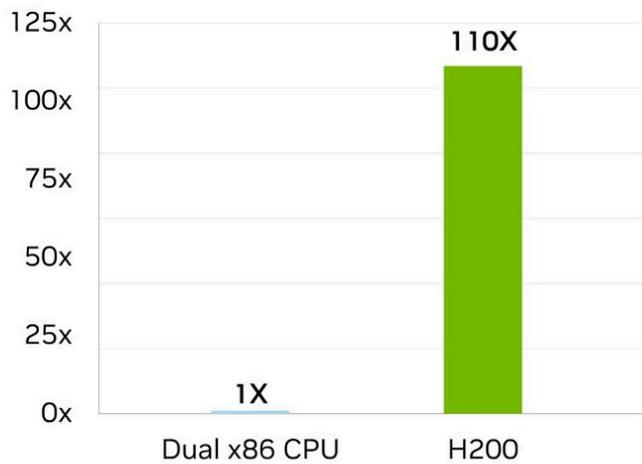
GPT-3 175B: ISL 80, OSL 200 | x8 H100 SXM GPUs BS 64 | x8 H200 SXM GPUs BS 128

Llama2 70B: ISL 2K, OSL 128 | Throughput | H100 SXM 1x GPU BS 8 | H200 SXM 1x GPU BS 32.

Supercharge High-Performance Computing

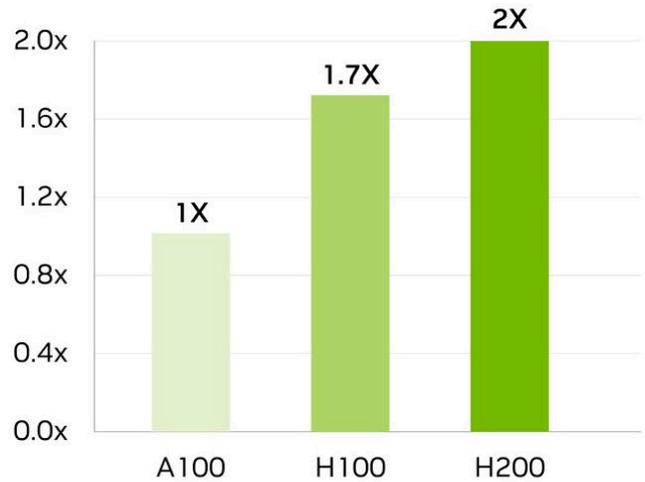
With its **4.8 TB/s bandwidth**, the H200 removes bottlenecks in data-intensive HPC applications such as molecular dynamics, quantum chemistry, and large-scale simulations. Tests show up to **110X HPC performance improvements compared to CPUs**

110X Higher MILC Performance



MILC
HGX H200 4-GPU vs Dual x86 Relative Performance

Up to 2X More HPC Application Performance



Geomean of HPC Apps
Relative Performance

Enterprise-Ready with NVIDIA AI Software

Deployed through AceCloud, the H200 includes access to **NVIDIA AI Enterprise**, featuring frameworks, pre-trained models, and NIM microservices to simplify generative AI deployment. This provides enterprises with **production-ready AI environments**, backed by AceCloud's **99.99% uptime SLA, MIG-enabled isolation, and secure multi-cloud architecture**.

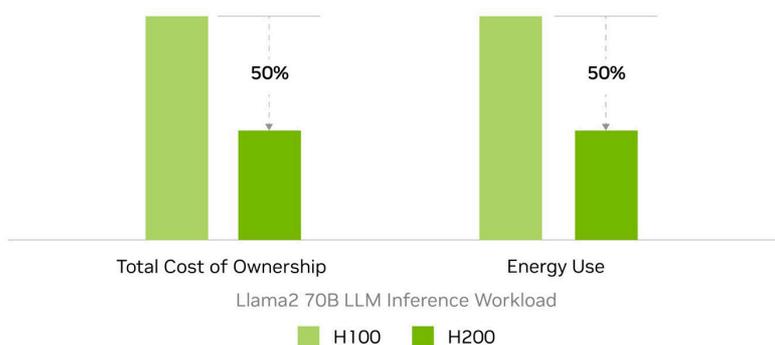
Reduce Energy and TCO

The NVIDIA H200 Tensor Core GPU brings a new level of efficiency to enterprise AI and HPC. Designed with the same power profile as the H100, the H200 not only delivers higher performance but also helps organizations **cut energy consumption and total cost of ownership (TCO) by up to 50%**.

For enterprises running large-scale AI factories or supercomputing workloads, this translates to systems that are both **faster and more eco-friendly**, giving businesses a clear economic and sustainability advantage.

H200 Reduces LLM Energy Use and TCO by 50%

Lower is Better



Use Cases

- Generative AI & LLM inference
- HPC workloads & simulations
- Enterprise AI applications
- AI factories & data centers
- Hybrid & multi-cloud deployments

Preliminary specifications. May be subject to change.

Llama2 70B: ISL 2K, OSL 128 | Throughput | H100 SXM 1x GPU BS 8 | H200 SXM 1x GPU BS 32

NVIDIA H200 Tensor Core GPU – Technical Specifications

SYSTEM SPECIFICATIONS

Specification	H200 SXM	H200 NVL
FP64	34 TFLOPS	30 TFLOPS
FP64 Tensor Core	67 TFLOPS	60 TFLOPS
FP32	67 TFLOPS	60 TFLOPS
TF32 Tensor Core ²	989 TFLOPS	835 TFLOPS
BFLOAT16 Tensor Core ²	1,979 TFLOPS	1,671 TFLOPS
FP16 Tensor Core ²	1,979 TFLOPS	1,671 TFLOPS
FP8 Tensor Core ²	3,958 TFLOPS	3,341 TFLOPS
INT8 Tensor Core ²	3,958 TFLOPS	3,341 TFLOPS
GPU Memory	141 GB	141 GB
GPU Memory Bandwidth	4.8 TB/s	4.8 TB/s
Decoders	7 NVDEC, 7 JPEG	7 NVDEC, 7 JPEG
Confidential Computing	Supported	Supported
Max Thermal Design Power (TDP)	Up to 700W (configurable)	Up to 600W (configurable)
Multi-Instance GPUs (MIGs)	Up to 7 MIGs @ 18 GB each	Up to 7 MIGs @ 16.5 GB each
Form Factor	SXM	PCIe (Dual-slot air-cooled)
Interconnect	NVIDIA NVLink: 900 GB/s PCIe Gen5: 128 GB/s	2- or 4-way NVLink bridge: 900 GB/s per GPU PCIe Gen5: 128 GB/s
Server Options	NVIDIA HGX™ H200 partner and NVIDIA-Certified Systems™ (4 or 8 GPUs)	NVIDIA MGX™ H200 NVL partner and NVIDIA-Certified Systems™ (up to 8 GPUs)
NVIDIA AI Enterprise	Add-on	Included

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Launch H200 on AceCloud Today

- ✓ Instant provisioning of NVIDIA H200 GPUs
- ✓ MIG-enabled multi-tenant isolation
- ✓ CUDA & container-ready environments
- ✓ 99.99% uptime SLA

Scan to launch your H200 VM →



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