

# NVIDIA DGX H200 System

The NVIDIA DGX™ H200 Systems are the universal systems purpose-built for all AI infrastructure and workloads from analytics to training to inference. The DGX H200 systems are built on eight NVIDIA H200 Tensor Core GPUs.

DGX H200 Hardware System Specification	
GPU	8x NVIDIA H200 Tensor Core GPUs
GPU Memory	141 GB per GPU x 8 GPUs = 1,128 GB total Gpu Memory
Performance	32 petaFlops FP8
NVIDIA NVSwitch™	4 x 4th generation NVLinks that provide 900 GB/s GPU-to-GPU bandwidth
CPU	Dual Intel® Xeon® Platinum 8480C Processors 112 Cores total, 2.00 GHz (Base), 3.80 GHz (Max Boost)
System Memory	2TB using 32x DIMMs
Network (storage and in-band management) card	<p>2 x NVIDIA® ConnectX®-7 Dual Port Ethernet Cards</p> <p>Each card provides the following speeds:</p> <p>Ethernet (default): 400GbE, 200GbE, 100GbE, 50GbE, 40GbE, 25GbE, and 10GbE</p> <p>InfiniBand: Up to 400Gbps</p>
Network (Cluster) card	<p>4 x OSFP ports for 8 x NVIDIA® ConnectX®-7 Single Port InfiniBand Cards</p> <p>Each card provides the following speeds:</p> <p>InfiniBand (default): Up to 400Gbps</p> <p>Ethernet: 400GbE, 200GbE, 100GbE, 50GbE, 40GbE, 25GbE, and 10GbE</p>
Management network	10Gb/s onboard NIC with RJ45 100Gb/s Ethernet NIC Host baseboard management controller (BMC) with RJ45
Storage OS	2 x 1.92 TB NVMe M.2 SSD (ea) in RAID 1 array

## DGX H200 Hardware System Specification

Internal storage	8 x 3.84 TB NVMe U.2 SED (ea) in RAID 0 array
Software	NVIDIA AI Enterprise – Optimized AI software NVIDIA Base Command – Orchestration, scheduling, and cluster management DGX OS / Ubuntu / Red Hat Enterprise Linux/ Rocky – Operating System
Support	Comes with 3-year business-standard hardware and software support
Operating temperature range	5–30°C (41–86°F)
Availability Status	On Sale

## DGX H200 Mechanical Specifications

Form Factor	8U Rackmount
Height	14" (356 mm)
Width	19" (482.3 mm) max
Depth	35.3" (897.1 mm) max
System Weight	287.6 lbs (130.45 kg) max
Packaged weight	376 lbs (170.45kgs)

## DGX H200 Electricity Specifications

DGX H200 Electricity Specifications	
System Power Usage	10.2kW max
Electricity input	200-240 volts AC
Power supply	6 x 3.3 kW
Specification for Each Power Supply	3300 W @ 200-240V, 16A, 50-60Hz

## Support for PSU Redundancy and Continuous Operation

The system includes six power supply units (PSU) configured for 4+2 redundancy.

Refer to the following additional considerations:

- If a PSU fails, troubleshoot the cause and replace the failed PSU immediately.
- If three PSUs lose power as a result of a data center issue or power distribution unit failure, the system continues to function, but at a reduced performance level.
- If only three PSUs have power, shut down the system before replacing an operational PSU.
- The system only boots if at least three PSUs are operational. If fewer than three PSUs are operational, only the BMC is available.
- Do not operate the system with PSUs depopulated.

## DGX H200 Locking Power Cord

The DGX H200 system is shipped with a set of six (6) locking power cords that have been qualified for use with the DGX H200 system to ensure regulatory compliance. To avoid electric shock or fire, only use the NVIDIA-provided power cords to connect power to the DGX H200. Do not use the provided cables with any other product or for any other purpose.

DGX H200 Locking Power Specifications	Detail
Electrical	250V AC, 20a
Plug Standard	C19/C20
Dimension	1200mm length
Compliance	Cord: UL62, IEC 60227 Connector/Plug: IEC 60320-1

DGX H200 Environmental Specification	
DGX H200 Environmental Specification	Detail
Operating Temperature	5° C to 30° C (41° F to 86° F)
Relative Humidity	20% to 80% non-condensing

## DGX H200 Environmental Specification

DGX H200 Environmental Specification	Detail
Airflow	1105 CFM Front-to-Back @ 80% fan PWM
Heat Output	38,557 BTU/hr

## DGX OS Software

The DGX H200 system comes pre-installed with a DGX software stack incorporating the following components:

- An Ubuntu server distribution with supporting packages.
- The following system management and monitoring software:
  - NVIDIA System Management (NVSM). Provides active health monitoring and system alerts for NVIDIA DGX nodes in a data center. It also provides simple commands for checking the health of the DGX H100/H200 system from the command line.
  - Data Center GPU Management (DCGM). This software enables node-wide administration of GPUs and can be used for cluster and data-center level management.
- DGX H200 system support packages.
- The NVIDIA GPU driver
- Docker Engine
- NVIDIA Container Toolkit
- NVIDIA Networking OpenFabrics Enterprise Distribution for Linux (MOFED)
- NVIDIA Networking Software Tools (MST)
- cachefilesd (daemon for managing cache data storage)

## Customer Support

Contact NVIDIA Enterprise Support for assistance in reporting, troubleshooting, or diagnosing problems with your DGX H200 system. Also contact NVIDIA Enterprise Support for assistance in moving the DGX H200 system.

- For contracted Enterprise Support questions, you can send an email to [enterprisesupport@nvidia.com](mailto:enterprisesupport@nvidia.com).
- For additional details about how to obtain support, go to NVIDIA Enterprise Support.

Our support team can help collect appropriate information about your issue and involve internal resources as needed.

## IMAGES OF COMPONENT HARDWARE

Gambar DGX H200	<a href="https://archive-lib.hpctech.co.jp/lib/wp-content/uploads/2022/09/nvidia_dgx_h100_pic_2.jpg">https://archive-lib.hpctech.co.jp/lib/wp-content/uploads/2022/09/nvidia_dgx_h100_pic_2.jpg</a>
Gambar Power Cord H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/cords.jpg">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/cords.jpg</a>
Gambar Front Panel H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-with-bezel.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-with-bezel.png</a>
Gambar Front Panel With the Bezel Removed H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-front-view.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-front-view.png</a>
Gambar Rear Panel H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-rear-panel-modules.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-rear-panel-modules.png</a>
Gambar Motherboard Connections and Controls H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-port-view.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-port-view.png</a>
Gambar Motherboard Tray Components H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-mb-tray-comp.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-mb-tray-comp.png</a>
Gambar GPU Tray Components H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-gpu-tray.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-gpu-tray.png</a>
Gambar Network Ports H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-port-view.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-port-view.png</a>
Gambar Compute and Storage Networking H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-storage-nw.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-storage-nw.png</a>
Gambar Network Modules H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/network-modules-2.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/network-modules-2.png</a>
Gambar System Topology H200	<a href="https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-system-topology.png">https://docs.nvidia.com/dgx/dgxh100-user-guide/_images/dgx-h100-system-topology.png</a>