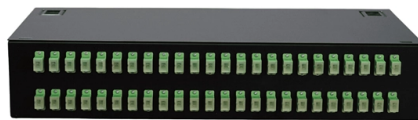


Does the H200 need an optical module



Article Overview

The NVIDIA H200 GPU itself does not include a built-in optical module, but H200-based systems, such as DGX H200 clusters, use external 800G optical transceivers for high-speed interconnects.

H200 GPU Connectivity

The H200 GPU is designed for high-performance computing and AI workloads, featuring HBM3e memory and the Hopper architecture, but it does not have integrated optical modules or display outputs. It connects to the system via PCIe or SXM interfaces, and its primary role is GPU computation rather than direct optical signal conversion .

Optical Modules in H200 Clusters

In DGX H200 or HGX H200 deployments, optical modules are used externally to enable high-speed InfiniBand interconnects between GPUs and servers. These clusters rely on 800G optical transceivers, such as multimode SR8 or single-mode DR8 modules, to handle the massive data transfer required for AI and HPC workloads . The choice of module depends on factors like:

- Link type: Server-to-Leaf or Leaf-to-Spine connections
- Distance: Short links may use DAC cables, while longer links require optical transceivers
- Form factor: ConnectX-7 NICs in H200 servers require RHS (Flat-top) modules, while Quantum-2 switches use IHS (Finned-top) modules These optical modules convert e...

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A practical, no-fluff guide on the NVIDIA H200 GPU—what it delivers, who actually needs it, cost trade-offs, and how

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NVIDIA DGX H200 Datasheet

DGX H200 can be installed on premises for direct management, colocated in NVIDIA DGX-Ready and accessed through NVIDIA

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Being a sxm module card, the NVIDIA H200 SXM 141 GB draws power from an 8-pin EPS power connector, with power draw rated

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TL;DR The NVIDIA H200 is the most advanced AI accelerator available, featuring 141GB HBM3e memory (76% more

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ThinkSystem NVIDIA H200 141GB GPUs

The NVIDIA H200 141GB 700W GPU is offered in either the SXM5 form factor or as a PCIe double-wide GPU adapter. Four or eight

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NVIDIA H200 Tensor Core GPU

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NVIDIA H200 NVL Specs | TechPowerUp GPU Database

The H200 NVL is a professional graphics card by NVIDIA, launched on November 18th, 2024. Built on the

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