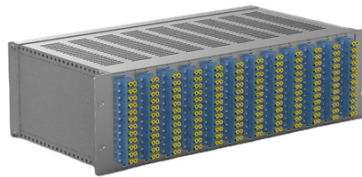


# H100 optical module cost



## Overview

H100 80 GB SXM modules are priced around \$35,000-\$40,000. A fully configured server with eight H100 GPUs—such as the NVIDIA DGX H100—can exceed \$300k, and some resellers list individual H100 boards for up to \$120k during shortages. Leading models like the NVIDIA H100 (Hopper architecture, 80 GB HBM3) typically sell in the \$27K-\$40K range per GPU, with multi-GPU boards costing hundreds of thousands of dollars ( ). If your team has tuned inference pipelines for. The H100's cutting-edge hardware comes with a significant cost. Deciding whether to buy or rent depends on your budget, utilization and scaling needs. The SXM5 variant delivers 989 TFLOPS in FP16, 3,350 GB/s of HBM3 memory bandwidth, and 700W TDP across 80GB of on-chip memory. 2 New H100 SXM5 units cost \$25,000 to \$40,000 per GPU as of Q1. As of March 2026, the NVIDIA H100 GPU price for a single 80GB PCIe unit starts at approximately \$25,000 USD and climbs to \$30,000-\$33,000 depending on vendor, region, and availability; the higher-bandwidth SXM5 variant typically costs \$35,000-\$40,000+ per GPU 1. Cloud GPU Pricing: Hourly rates range from \$2. Infrastructure Costs: Consider additional expenses like power, cooling.



## Article Content

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The NVIDIA H100 GPU, the latest high-performance GPU for AI and HPC workloads, has a base purchase price ranging approximately from \$25,000 to \$40,000 in 2025 depending on the model and

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Real-world pricing for buying or renting an H100, plus hidden infrastructure costs. Benchmarks and use cases showing where the H100 shines

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Optical module usage: A 400 Gbit/s optical module is required for the downstream port of a Leaf switch. The required value is 32 x 8 x 4.

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How Many Optical Modules Are Needed for One H100?

Currently, the ratio of GPUs to optical modules is approximately 1:2.5—meaning that, on average, for one Nvidia H100 GPU, two-and-a-half 800G optical modules are required for training activities within

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How much is an Nvidia H100?

When purchasing directly from Nvidia, the H100 GPU is estimated to cost around \$25,000 per GPU. However, it's important to note that these prices

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H100 Rental Prices Compared: \$1.49-\$6.98/hr Across

Academia & industry narratives at the time noted that while H100 power justified its cost-performance, cost remained a major barrier for widespread use. However,

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Learn how NVIDIA H100 GPU changes AI and HPC with its Hopper design, 4th-gen Tensor Cores, and FP8 precision.

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The NVIDIA H100 is an integral part of the NVIDIA data center platform. Built for AI, HPC, and data analytics, the platform accelerates over 3,000 applications, and is available everywhere from data

Aug 04, 2025

## Contact Us

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