# How many optical modules does the gh200 use

This corresponds to roughly 9 optical modules per GH200 chip. This provides a lower-bound estimate for a two-tier Fat-Tree deployment where optical modules are only used above the ...

The NVIDIA GH200 also comes in a dual-GH200 configuration with two Grace Hopper Superchips fully connected by NVLink to deliver 288GB of HBM3e and 1.2TB of fast memory for both compute- and ...

For a single cluster of 256 GH200 chips, one GH200 on the computing side corresponds to nine 800Gbps (each 800Gbps corresponds to 100GB/s, two NVLink 4.0 links) optical transceiver.

If it is considered that the GH200 chip and the TOR layer switch are interconnected by copper wires, a single GH200 chip needs to be equipped with 8 800G optical modules.

In the first level, groups of 8x NVIDIA Grace Hopper Superchip modules are connected with three NVLink switches that deliver 3.6 TB/s of bisection bandwidth. Thirty-two 8-GPU building blocks are ...

Internally, servers may use copper connections, while inter-server communication may rely on optical fiber. In a 256-GPU GH200 cluster, each GH200 corresponds to 9 800Gbps optical...

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The NVIDIA GH200 NVL2 fully connects two GH200 Superchips with NVLink, delivering up to 288GB of high-bandwidth memory, 10 terabytes per second (TB/s) of memory bandwidth, and 1.2TB of fast ...

In a 256-GPU GH200 cluster, each GH200 corresponds to 9 800Gbps optical modules, with each module delivering 100GB/s over two NVLink 4.0 links.

For Al inference workloads, GH200 Grace Hopper Superchips combine with NVIDIA networking technologies to provide the best TCO for scale-out solutions, letting customers take on larger ...

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