GB200 optical module interface

Overview

The expansion interface uses OSFP optical modules, which can support 16 differential signal lines, allowing a single OSFP to support 4 NVLINK Ports. Typically, the NVLink 5 bandwidth of a single GB200 is 1. However, on NVLink Switches or IB/Ethernet switches and network cards, Mellanox's perspective calculates it in terms of network bandwidth, usually in. The B200 has 18 sub-links, resulting in a bandwidth of 100GB/s * 18 = 1. 8TB/s, which is equivalent to 9 single-direction 400Gbps interfaces from a network perspective. For the sake of clarity, we. The NVIDIA DGX GB Rack Scale Systems User Guide is also available as a PDF. Each rack is an NVL72 rack (72-GPU NVL domain). The guide applies to. NVIDIA GB200, as the next-generation computing platform, derives its core competitiveness not only from its powerful computing units but also from the global interconnection architecture built by NVLink 5.

Article Content

NVIDIA GB200 NVL72 Guide: Specs, Pricing & Architecture

GB200 NVL72: 72 B200 GPUs, 13.4 TB unified memory, 1.44 exaflops per rack. Full specs, cloud pricing, and when rack-scale beats 8×B200 for 200B+ AI training.

AI Servers: Understanding Modern Infrastructure Needs

AI infrastructure is no longer defined only by the processor mounted on an accelerator card. It is shaped by the full component ecosystem: compute silicon, high-bandwidth memory, advanced

1.6T Optical Interconnect Solution for NVIDIA GB200

FS delivers dedicated 1.6T transceivers and cables for NVIDIA GB200, boosting computational efficiency in AI clusters while reducing TCO. Backward-compatible with existing 800G infrastructure,

Data Center Cabling Solutions for NVIDIA GB200/GB300 NVL72 AI

Many of the transceiver interface options today are MPO12 or MPO12/8 based, which has proven to be an adequate presentation of fibers to support duplex and parallel optical transmission protocols.

NVIDIA GB200 Interconnect Architecture Analysis: NVLink, InfiniBand ...

Explore the intricate interconnect architecture of the NVIDIA GB200, including NVLink bandwidth calculation, NVLINK 5.0 and 4.0 interconnect bandwidth, NVL72 and NVL576

NVIDIA GB200 Interconnect Architecture Analysis-NVLink, InfiniBand,

Expansion interfaces employ OSFP optical modules. As depicted in the following diagram, an OSFP optical module can support 16 pairs of differential signal lines, thus enabling each

NVIDIA DGX GB Rack Scale Systems User Guide

This document contains detailed information about the hardware and software stack of DGX Grace Blackwell rack scale systems (such as GB200 and GB300). Each rack is an NVL72 rack

Analyzing NVIDIA GB200 Interconnect Architecture: NVLink,

The GB200 provides a “modular + scalable” construction framework for large-scale AI infrastructure, with its core functionality achieved through the collaboration between NVLink and InfiniBand, enabling

Feasibility of 200 Gb/s per lane electrical interfaces

Summary Analysis suggests that 200G/lane chip-to-module (C2M) interfaces are feasible Implies that 200G/lane chip-to-chip (C2C) interfaces are also feasible (given a similar loss budget) Important

NVIDIA GB200: Interconnect Architecture and Evolution

The expansion interface uses OSFP optical modules, which can support 16 differential signal lines, allowing a single OSFP to support 4 NVLINK Ports. The NVLink Switch in the image

Unveiling NVIDIA GB200 Interconnect Architecture

Expansion interfaces employ OSFP optical modules. As depicted in the following diagram, an OSFP optical module can support 16 pairs of differential signal lines, thus enabling each

GB200 Hardware Architecture

Today we are going to go from A to Z on the different form factors of GB200 and how they changed versus the prior 8 GPU HGX baseboard servers. We will break downs on unit volumes,

Contact Us

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