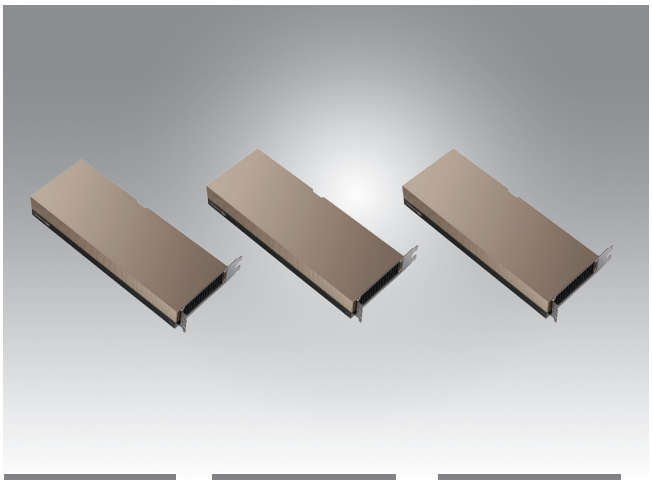
SKY-TESL-H100-80P
SKY-TESL-H100N-94P
SKY-TESL-H200N-141

NVIDIA® Tesla® H100
NVIDIA® Tesla® H100 NVL
NVIDIA® Tesla® H200 NVL



SKY-TESL-H100-80P | SKY-TESL-H100N-94P | SKY-TESL-H200N-141

Features

- NVIDIA Hopper GPU architecture
- Compute-optimized GPU
- 14592 NVIDIA® CUDA® Cores
- 456 NVIDIA® Tensor Cores
- 80GB / 94GB / 141GB memory with ECC
- Up to 4.8TB/s memory bandwidth
- Max. power consumption: 350W / 400W / 600W
- Graphics bus: PCI-E 5.0 x16
- Thermal solution: Passive

Introduction

NVIDIA® Tesla® H100 / H100 NVL / H200 NVL PCIe Card are compute-optimized GPU built on the NVIDIA Hopper architecture. Dual-slot 10.5-inch PCI Express Gen5 interface in a passive heatsink, is ideal for lower-power, air-cooled enterprise rack designs.

NVIDIA Gen4 Tensor Core supercharges generative AI and high-performance computing (HPC) workloads with game-changing performance and memory capabilities. Supporting a Gen2 multi-instance GPU (MIG) feature, which guarantees quality of service (QoS) with secure, partitioned hardware, maximum GPU resources utilization. The NVIDIA NGC™ catalog provides software, libraries, and optimized AI models and applications to complete data center solutions. NVIDIA Tesla is the first choice for high-standard computing solutions in enterprise and science deployments.

Specifications

Product Name	Tesla H100	Tesla H100 NVL	Tesla H200 NVL
Part Number	SKY-TESL-H100-80P	SKY-TESL-H100N-94P	SKY-TESL-H200N-141
GPU Architecture	Hopper	Hopper	Hopper
GPU Memory	80GB HBM2e	94GB HBM3	141GB HBM3e
Memory Bandwidth	2TB/s	3.9TB/s	4.8TB/s
NVIDIA CUDA Cores	14592	14592	14592
Tensor Cores	456	456	456
Single-Precision Performance	48 TFLOPS	60 TFLOPS	60 TFLOPS
Double-Precision Performance	24 TFLOPS	30 TFLOPS	30 TFLOPS
Fast FP64	Yes	Yes	Yes
System Interface	PCI Express 5.0 x16	PCI Express 5.0 x16	PCI Express 5.0 x16
Max Power Consumption	350W	400W	600W
Power Connector	16-Pin PCIe	16-Pin PCIe	16-Pin PCIe
Thermal Solution	Passive	Passive	Passive
Multi-Instance GPU	Up to 7	Up to 7	Up to 7
Form Factor	4.4 inches H x 10.5 inches L dual slot, full height	4.4 inches H x 10.5 inches L dual slot, full height	4.4 inches H x 10.5 inches L dual slot, full height
NVLink Support	3 NVLINK Bridges for 2 GPUs, 600GB/s	3 NVLINK Bridges for 2 GPUs, 600GB/s	2 / 4- way NVIDIA NVLink bridge, 900GB/s
Media Acceleration	7 JPEG Decoder, 7 Video Decoder	7 JPEG Decoder, 7 Video Decoder	7 JPEG Decoder, 7 Video Decoder
Display Connectors	Headless Design	Headless Design	Headless Design

Ordering information - Accessory

Advantech PN	Description	Compatible product	PCIe Slot Pitch	Total Cards Connected
SKY-QUAD-NVL-2A	Quadro NVLink Bridge 2-Slot	H100, H100 NVL	Dual Slot	2
SKY-QUAD-NVL-3A	Quadro NVLink Bridge 3-Slot	H100, H100 NVL	3 Slot	2
SKY-TESL-NVL-4A	4- way NVIDIA NVLink bridge	H200 NVL	Dual Slot	4
SKY-TESL-NVL-2A	2- way NVIDIA NVLink bridge	H200 NVL	Dual Slot	2

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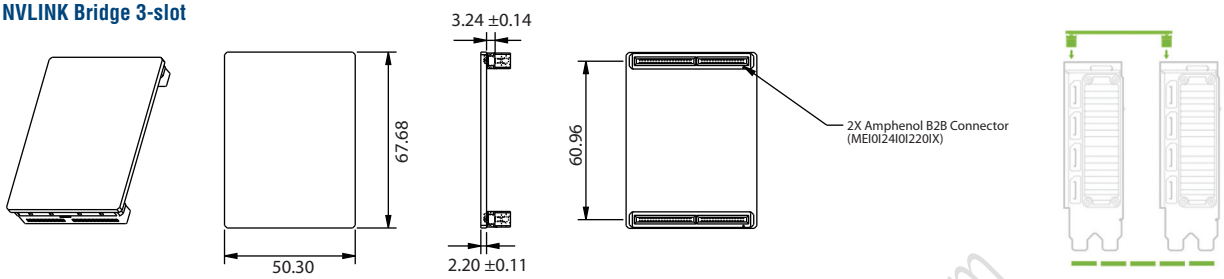
All product specifications are subject to change without notice.

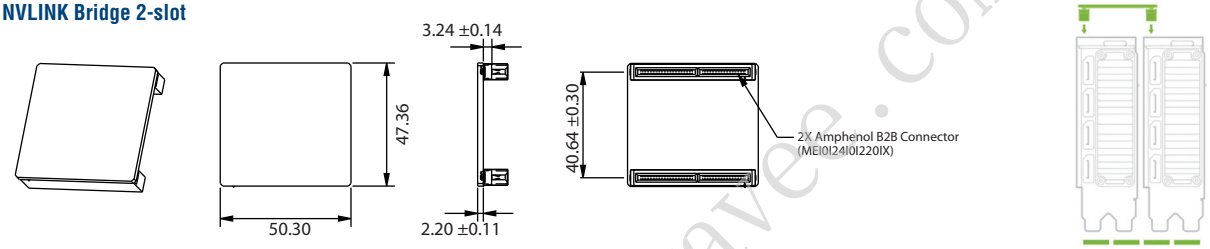
Optional NVLINK Bridge

H100 NVL: 3 NVLINK Bridges for 2 GPUs, 600GB/s

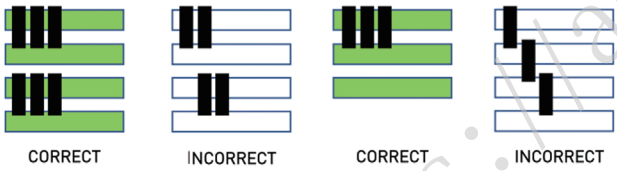
NVLINK Bridge 3-slot



NVLINK Bridge 2-slot

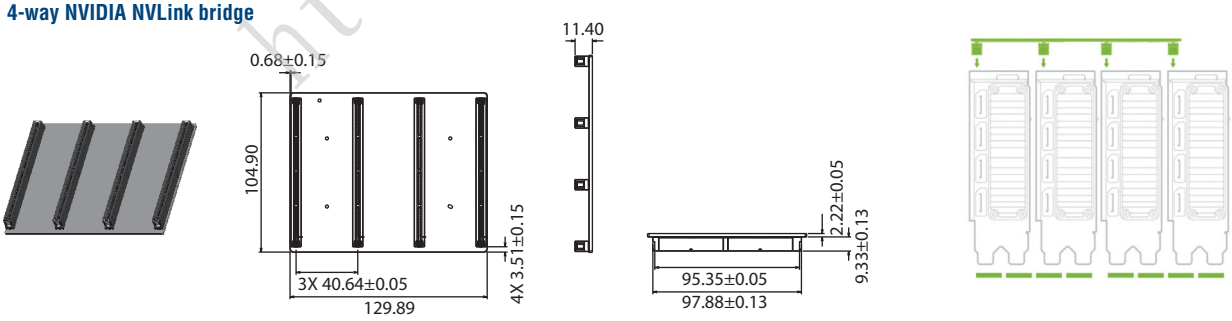


NVLink Topology - Top View

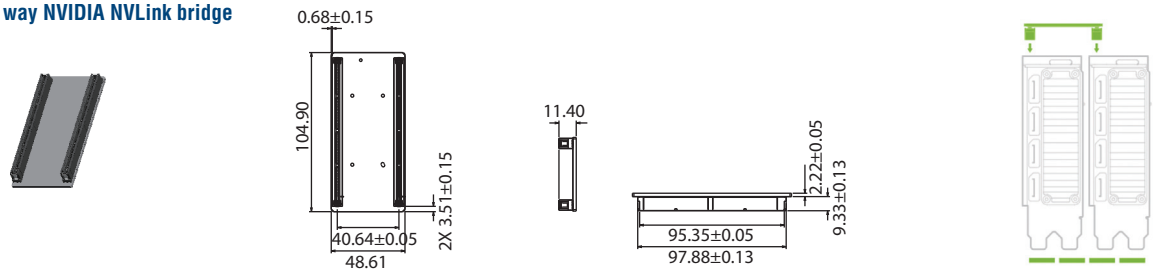


H200 NVL: 2 / 4- way NVIDIA NVLink bridge, 900GB/s

4-way NVIDIA NVLink bridge



2- way NVIDIA NVLink bridge



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