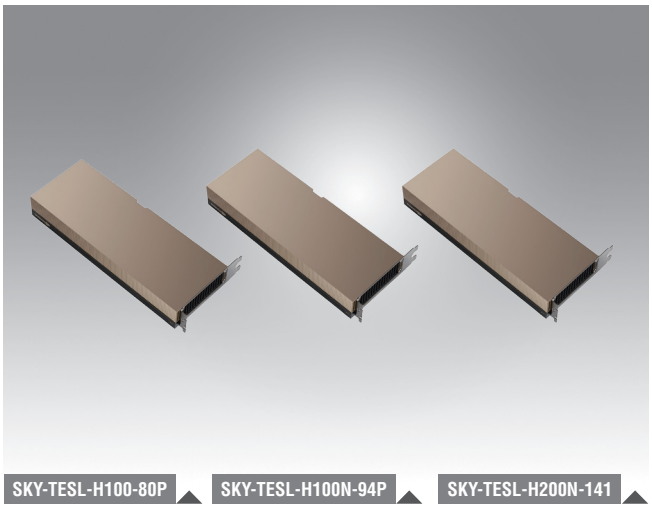
# SKY-TESL-H100-80P
# SKY-TESL-H100N-94P
# SKY-TESL-H200N-141

## 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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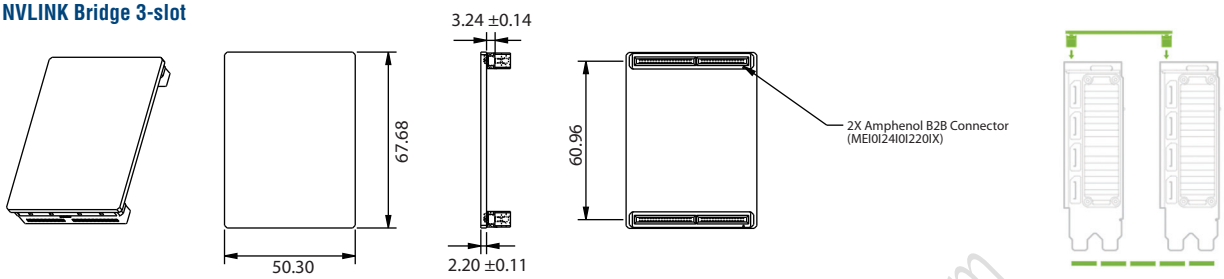


All product specifications are subject to change without notice.

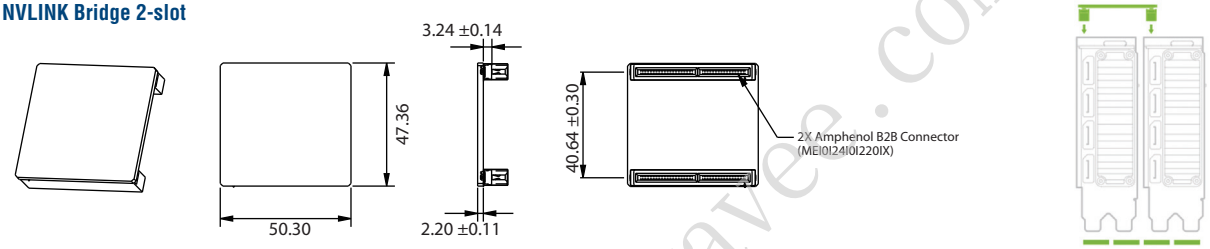
# Optional NVLINK Bridge

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

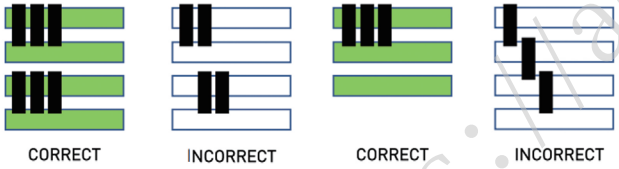
#### NVLINK Bridge 3-slot




#### NVLINK Bridge 2-slot

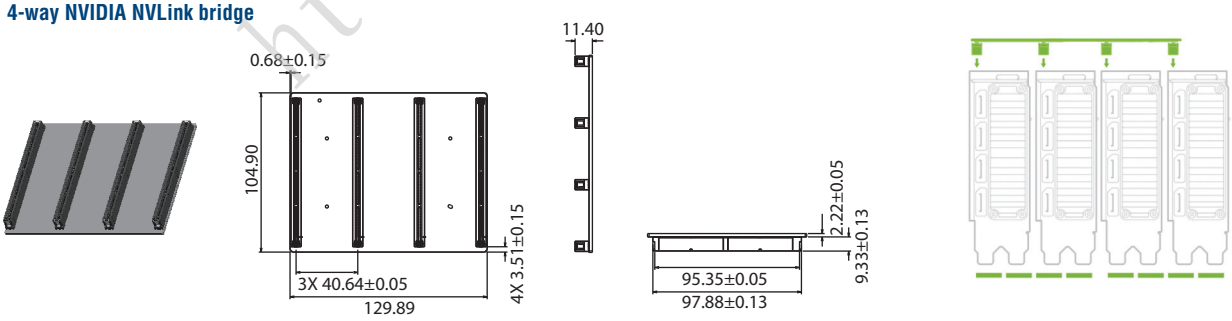



#### NVLink Topology - Top View

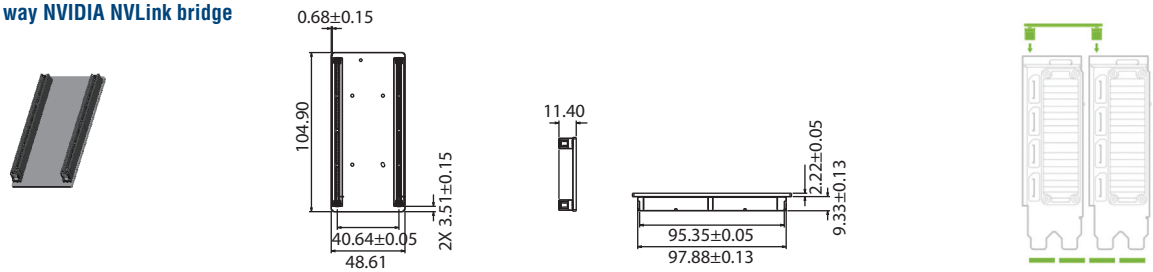



### H200 NVL: 2 / 4- way NVIDIA NVLink bridge, 900GB/s

#### 4-way NVIDIA NVLink bridge




#### 2- way NVIDIA NVLink bridge




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