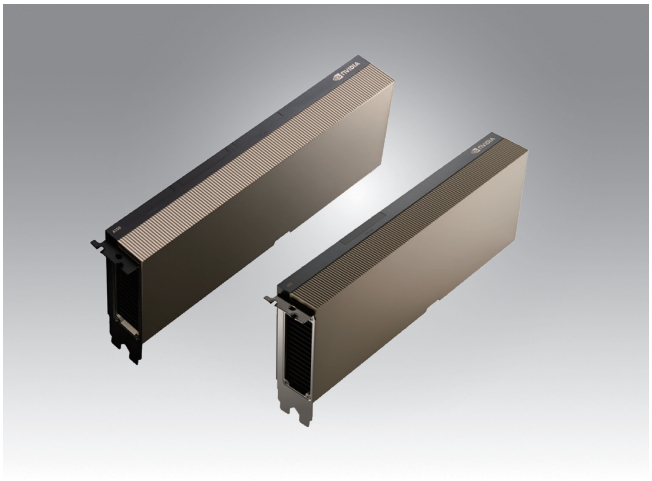
# SKY-TESL-A100-80P
# SKY-TESL-A30-24P

## NVIDIA® Tesla® A100 80GB

## NVIDIA® Tesla® A30



## Features

- NVIDIA Ampere GPU architecture
- Compute-optimized GPU
- 6912 / 3584 NVIDIA® CUDA® Cores
- 432 / 224 NVIDIA® Tensor Cores
- 80GB HBM2e / 24GB HBM2 memory with ECC
- Up to 1,935 / 933 GB/s memory bandwidth
- Max. power consumption: 300W / 165W
- Graphics bus: PCI-E 4.0 x16
- Thermal solution: Passive

## Introduction

NVIDIA® Tesla® A100 80GB (SKY-TESL-A100-80P) and Tesla A30 (SKY-TESL-A30-24P) PCIe cards are compute-optimized GPUs built on the NVIDIA Ampere architecture with dual-slot 10.5-inch PCI Express Gen4 interface in a passive heatsink cooling design suitable for data centers. Combining NVIDIA Gen3 tensor cores and HBM2e/HBM2 memory, they provide a high-performance computing solution. Supporting a multi-instance GPU (MIG) feature, which guarantees quality of service (QoS) with secure, partitioned hardware, they allow maximum utilization of GPU resources. The NVIDIA NGC™ catalog provides software, libraries, and optimized AI models and applications to complete data center solutions. With cutting-edge features and technologies, NVIDIA Tesla A100 80GB and A30 are perfect for AI deep learning training and inference, data analytics, and high-performance computing (HPC) applications. NVIDIA Tesla is the first choice for high-standard computing solutions in enterprise and science deployments.

## Specifications

| | | |
|---|---|---|
| Product Name | Tesla A100 80GB | Tesla A30 |
| Part Number | SKY-TESL-A100-80P | SKY-TESL-A30-24P |
| GPU Architecture | Ampere | Ampere |
| GPU Memory | 80GB HBM2e | 24GB HBM2 |
| Memory Bandwidth | 1,935 GB/s | 933GB/s |
| NVIDIA CUDA Cores | 6912 | 3584 |
| Tensor Cores | 432 | 224 |
| Single-Precision Performance | 19.5 TFLOPS | 10.3 TFLOPS |
| Double-Precision Performance | 9.7 TFLOPS | 5.2 TFLOPS |
| Fast FP64 | Yes | Yes |
| System Interface | PCI Express 4.0x16 | PCI Express 4.0x16 |
| Max Power Consumption | 300W | 165W |
| Power Connector | 8-Pin CPU | 8-Pin CPU |
| Thermal Solution | Passive | Passive |
| Multi-Instance GPU | Up to 7 | Up to 4 |
| 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 |
| NVLink Support | 3 NVLINK Bridges for 2 GPUs, 600GB/s | 1 NVLINK Bridge for 2 GPUs, 200GB/s |
| Media Acceleration | 1 JPEG Decoder, 5 Video Decoder | 1 JPEG Decoder, 4 Video Decoder |
| Display Connectors | Headless Design | Headless Design |

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