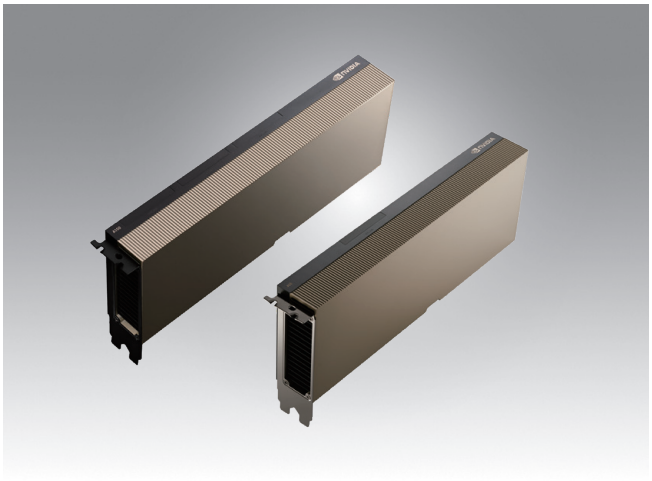
SKY-TESL-A100-80P
SKY-TESL-A30-24P

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

All product specifications are subject to change without notice.