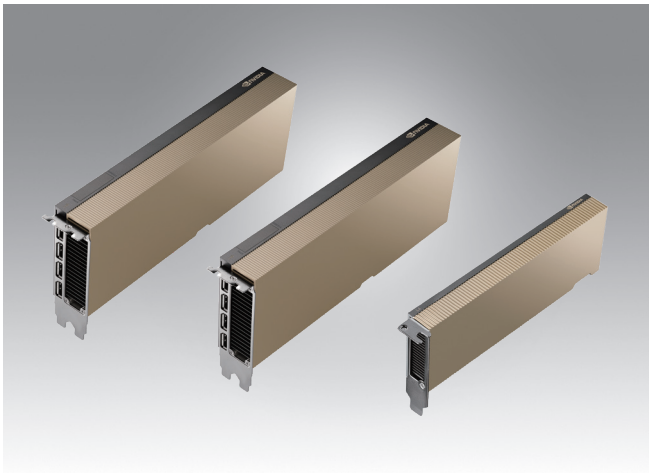
SKY-TESL-L40S-48P
SKY-TESL-L40-48P
SKY-TESL-L4-24P

NVIDIA® Tesla® L40S
NVIDIA® Tesla® L40
NVIDIA® Tesla® L4



Features

- NVIDIA Ada-Lovelace GPU architecture
- Universal Compute & Graphics GPU
- Third-Generation RT Cores
- Fourth-Generation Tensor Cores
- NVIDIA Deep Learning Super Sampling 3 (DLSS3) Support
- AV1 Encode & Decode Support
- NVIDIA vGPU Support
- Graphics bus: PCI-E 4.0 x16
- Thermal solution: Passive

Introduction

NVIDIA® Tesla® L40S (SKY-TESL-L40S-48P), L40 (SKY-TESL-L40-48P) and L4 (SKY-TESL-L4-24P) PCIe cards are universal compute & graphics GPU built on the NVIDIA Ada-Lovelace architecture with PCI Express Gen4 interface in a passive heatsink cooling design suitable for data centers. Combining NVIDIA Gen4 tensor cores and Gen3 RT cores can provide a high-performance computing solution. With next-generation improvements in NVIDIA virtual GPU (vGPU) software and more GPU memory than the previous generation, NVIDIA L series datacenter GPU increases workstation performance for mid-to-high-end design workflows running on NVIDIA RTX™ Virtual Workstation (vWS) and accelerates productivity applications running on NVIDIA Virtual PC (vPC).

With cutting-edge features and technology, the NVIDIA L series data center GPU provides the universal accelerator for video, AI, virtualized desktop, and graphics applications in the enterprise, in the cloud, and at the edge.

Specifications

Product Name	Tesla L40S	Tesla L40	Tesla L4
Part Number	SKY-TESL-L40S-48P	SKY-TESL-L40-48P	SKY-TESL-L4-24P
GPU Architecture	Ada-Lovelace	Ada-Lovelace	Ada-Lovelace
GPU Memory	48GB GDDR6 with ECC	48GB GDDR6 with ECC	24GB GDDR6 with ECC
Memory Bandwidth	864GB/s	864GB/s	300GB/s
NVIDIA CUDA Cores	18176	18176	7680
Tensor Cores	568	568	240
RT Cores	142	142	60
Single-Precision Performance	91.6 TFLOPS	88 TFLOPS	30.3 TFLOPS
Fast FP64	No	No	No
System Interface	PCI Express 4.0 x16	PCI Express 4.0 x16	PCI Express 4.0 x16
Max Power Consumption	350W	300W	72W
Power Connector	16-Pin PCIe	16-Pin PCIe	-
Thermal Solution	Passive	Passive	Passive
Multi-Instance GPU	N/A	N/A	N/A
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	2.7 inches(H) x 6.6 inches(L) single slot, low-profile
NVLink Support	N/A	N/A	N/A
Media Acceleration	3 NVENC (+AV1 enc), 3 NVDEC (+AV1 dec)	3 NVENC (+AV1 enc), 3 NVDEC (+AV1 dec)	2 NVENC (+AV1 enc), 4 NVDEC (+AV1 dec)
Display Connectors	4 x DP 1.4	4 x DP 1.4	Headless Design

All product specifications are subject to change without notice.