

# NVIDIA® L40

## SPECIFICATIONS

<b>Product</b>	NVIDIA L40
<b>Architecture</b>	NVIDIA Ada Lovelace Architecture
<b>Process Size</b>	4nm NVIDIA Custom Process   TSMC
<b>Transistors</b>	76.3 Billion
<b>Die Size</b>	608.44 mm <sup>2</sup>
<b>CUDA Cores</b>	18176
<b>Tensor Cores</b>	568   Gen 4
<b>RT Cores</b>	142   Gen 3
<b>GPU Memory</b>	48 GB GDDR6 ECC
<b>Memory Interface</b>	384-bit
<b>Memory Bandwidth</b>	864 GB/s
<b>Display Connectors</b>	4x DP 1.4a
<b>Maximum Digital Resolution</b>	4x 5K at 60 Hz   2x 8K at 60 Hz 4x 4K at 120 Hz   30-bit Color
<b>Form Factor</b>	4.4" H x 10.5" L   Dual Slot
<b>Thermal Solution</b>	Passive
<b>Maximum Power Consumption</b>	300 W
<b>vGPU Software Support</b>	NVIDIA vApps, vPC, vWS   Early 2023
<b>vGPU Profiles Supported</b>	1 GB, 2 GB, 3 GB, 4 GB, 6 GB, 8 GB, 12 GB, 16 GB, 24 GB, 48 GB
<b>Graphics APIs</b>	DirectX 12 Ultimate, Shader Model 6.6, OpenGL 4.6, Vulkan 1.3
<b>NVENC   NVDEC</b>	3x ENC   3x DEC   Includes AV1 Encode and Decode
<b>Compute APIs</b>	CUDA 12.0, DirectCompute, OpenCL 3.0
<b>NVIDIA 3D Vision and 3D Vision Pro</b>	Support via Optional 3-pin mini-DIN Bracket
<b>Frame Lock</b>	Supported with optional NVIDIA Quadro Sync II
<b>Power Connector</b>	1x PCIe CEM5 16-pin
<b>NEBS Ready</b>	Level 3
<b>Secure Boot with Root of Trust</b>	Supported

\*Preliminary specifications only (subject to change).