

# NVIDIA® RTX™ 4000 Ada GENERATION

## SPECIFICATIONS

<b>Architecture</b>	NVIDIA Ada Lovelace Architecture
<b>Process Size</b>	4 nm NVIDIA Custom Process   TSMC
<b>Die Size</b>	294.5 mm <sup>2</sup>
<b>Transistors</b>	35.8 Billion
<b>CUDA Parallel Processing Cores</b>	6,144
<b>Tensor Cores</b>	192
<b>RT Cores</b>	48
<b>Single-Precision Performance<sup>1</sup></b>	26.7 TFLOPS
<b>Tensor Performance<sup>1</sup></b>	427.6 TFLOPS <sup>2</sup>
<b>RT Core Performance<sup>1</sup></b>	61.8 TFLOPS
<b>GPU Memory</b>	20 GB GDDR6 with ECC
<b>Memory Interface</b>	160-bit
<b>Memory Bandwidth</b>	360 GB/s
<b>Display Connectors</b>	DP 1.4a (4) <sup>3</sup>
<b>Graphics Bus</b>	PCI Express 4.0 x16
<b>Form Factor</b>	4.4" (H) x 9.5" (L) Single Slot
<b>Thermal Solution</b>	Blower Active Fan
<b>NVIDIA 3D Vision and 3D Vision Pro</b>	Support via 3-pin mini-DIN
<b>Frame Lock</b>	Compatible with NVIDIA Quadro Sync II
<b>Maximum Power Consumption</b>	130W
<b>NVENC   NVDEC</b>	2x   2x   Includes AV1 encode and Decode

<sup>1</sup> Peak rates are based on GPU boost clock.

<sup>2</sup> Effective FP8 TFLOPS using the new sparsity feature.

<sup>3</sup> Display ports are on by default for the RTX 4000 Ada Generation.