

# PCI Express Graphic Cards based on NVIDIA Ampere Architecture

PCI Express Graphic Cards with NVIDIA GPUs



• NVIDIA RTX A2000



• NVIDIA RTX A4000



• NVIDIA RTX A5000



• NVIDIA RTX A6000

## Features

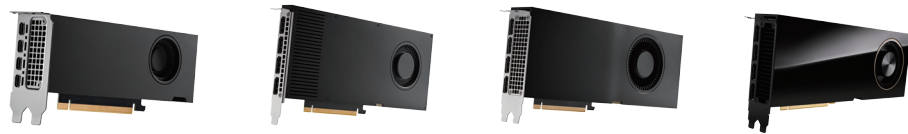
- NVIDIA Ampere architecture
- Third gen Tensor cores
- Second gen RT cores
- Third gen NVLINK technology
- PCI Express Gen 4.0 support
- AV1 decode support
- NVIDIA GPUDirect® for video
- NVIDIA RTX Experience™
- NVIDIA RTX Desktop Manager software
- HDCP 2.2 support
- NVIDIA Mosaic1 technology
- NVIDIA Quadro® Sync II compatible
- vGPU support

## Ordering Information

NVIDIA RTX A2000	PCIe x16 Gen4, 4x mDP 1.4, 2.7" H x 6.6" L, dual slot
NVIDIA RTX A4000	PCIe x16 Gen4, 4x DP 1.4, 4.4" H x 9.5" L, single slot
NVIDIA RTX A5000	PCIe x16 Gen4, 4x DP 1.4, 1x Type C, 4.4" H x 10.5" L, dual slot, full height
NVIDIA RTX A6000	PCIe x16 Gen4, 4x DP 1.4, 1x Type C, 4.4" H x 10.5" L, dual slot, full height

\* The product is sold with ADLINK platforms. Recommended models are DLAP-4000, AmITX-SL, IMB-M43H, IMB-M43-C236, IMB-M43, and NuPRO-E43 paired with EBP-13E2.

## Specifications



Model Name	NVIDIA RTX A2000	NVIDIA RTX A4000	NVIDIA RTX A5000	NVIDIA RTX A6000
<b>Graphic Core</b>				
Graphic Architecture	NVIDIA® Ampere™ GA106	NVIDIA® Ampere™ GA104	NVIDIA® Ampere™ GA102	
GPU	RTX A2000	RTX A4000	RTX A5000	RTX A6000
Memory	6/12 GB GDDR6 memory, 192-bit, Bandwidth: Up to 288 GB/s	16 GB GDDR6 memory, 256-bit, Bandwidth: Up to 448 GB/s	24 GB GDDR6 memory, 384-bit, Bandwidth: Up to 768 GB/s	48 GB GDDR6 memory, 384-bit, Bandwidth: Up to 768 GB/s
ECC	Yes			
<b>GPGPU Computing</b>				
CUDA Cores	3,328 CUDA® cores, 8.0 TFLOPS SP Peak	6,144 CUDA® cores, 19.2 TFLOPS SP Peak	8,192 CUDA® cores, 27.8 TFLOPS SP Peak	10,752 CUDA® cores, 38.7 TFLOPS SP Peak
Tensor Cores	104 63.9 TFLOPS	192 153.4 TFLOPS	256 222.2 TFLOPS	336 309.7 TFLOPS
RT Cores	26 15.6 TFLOPS	48 37.4 TFLOPS	64 54.2 TFLOPS	84 75.6 TFLOPS
Compute API	CUDA Toolkit 8.0, CUDA Compute version 6.1, OpenCL™ 1.2			
Graphics API	Shader Model 5.17, OpenGL 4.68, DirectX 12.07, Vulkan 1.2			
<b>Display</b>				
Display Outputs	4 x mDP 1.4 with latching mechanism 4x 4096 x 2160 @ 120Hz 4x 5120 x 2880 @ 60Hz 2x 7680 x 4320 @ 60Hz	4 x DP 1.4 4x 4096 x 2160 @ 120Hz 4x 5120 x 2880 @ 60Hz 2x 7680 x 4320 @ 60Hz		
Interface	PCI Express 4.0 x16			
<b>Mechanicals</b>				
Dimensions	2.7" H x 6.6" L, dual slot	4.4" H x 9.5" L, single slot	4.4" H x 10.5" L, dual slot	
Form Factor	Full height, full length NVIDIA Form Factor 5.0 compliant			
<b>Environmental</b>				
Operating Temperature	0°C~50°C		0°C~45°C	
Storage Temperature	-40°C~75°C			
Module Power Consumption	70W	140W	230W	300W
<b>SW Support</b>				
OS Support	Windows 10 & Linux drivers, 64-bit			