

PROFESSIONAL GRAPHICS SOLUTIONS



Competitor Product



NVIDIA RTX™ / Quadro®

		CUSTOMER HAS ANY OF THESE GRAPHICS CARDS?		REPLACE WITH		 Competitor Product		 NVIDIA RTX™ / Quadro®	
		COMPETITOR	OLDER NVIDIA GPUs	NVIDIA					
SPECIALTY									
ULTRA HIGH END									
HIGH END									
MID RANGE									
ENTRY									

1 Display support will vary by system builder.

2 NVLink enables two GPUs to share GPU memory via an NVLink connector. Contact your software vendor to confirm application support for NVLink.

PNY Technologies, Inc. 100 Jefferson Road, Parsippany, NJ 07054 | Tel 973-515-9700 | Fax 973-560-5590 | WWW.PNY.COM/PNYPRO

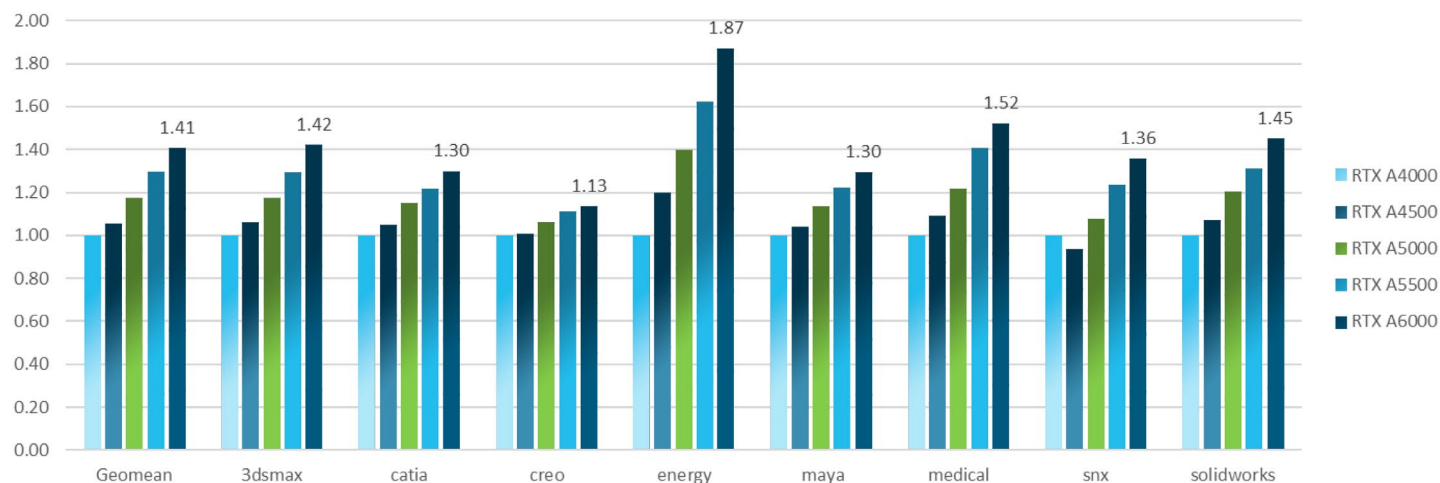
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PROFESSIONAL GRAPHICS SOLUTIONS

DESKTOP FAMILY GRAPHICS PERFORMANCE

SPECVIEWPERF 2020 4K RESOLUTION | RELATIVE PERFORMANCE



Tests run on workstation with 1x Xeon Gold 6154, 3GHz (3.7GHz Turbo), Win10 x 64, NVIDIA driver version 511.47, SPECviewperf 20.

DESKTOP FAMILY GRAPHICS SPECIFICATIONS

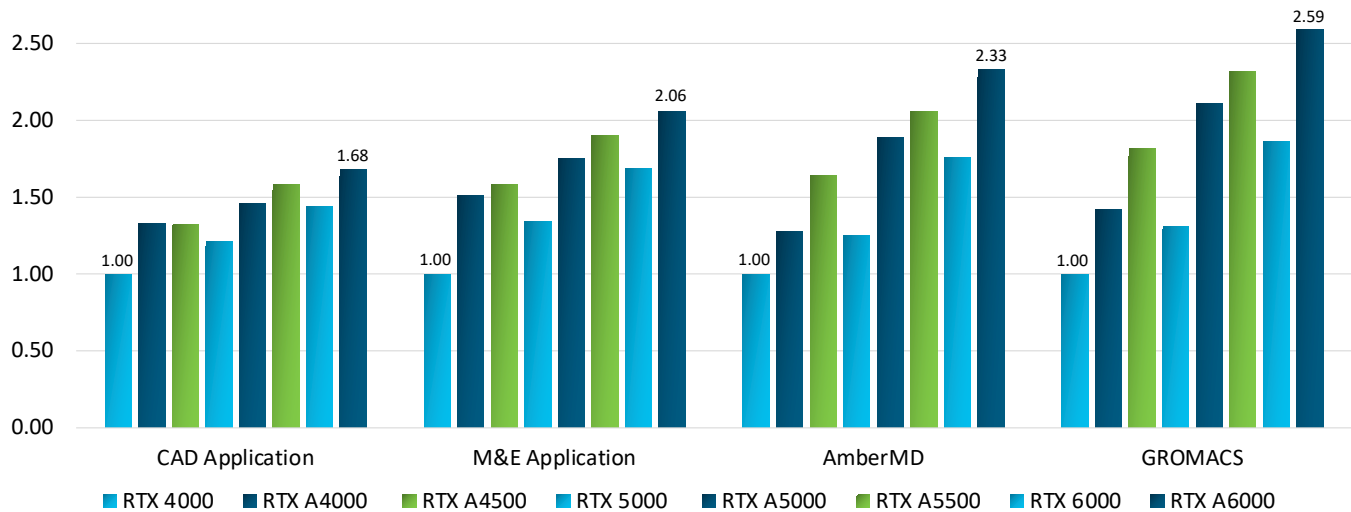
	RTX A6000	RTX A5500	RTX A5000	RTX A4500	RTX A4000
Architecture	Ampere	Ampere	Ampere	Ampere	Ampere
Chipset	GA102	GA102	GA102	GA102	GA104
Die Size	628.4mm ²	628.4mm ²	628.4mm ²	628.4mm ²	392mm ²
CUDA Cores	10752	10240	8192	7168	6144
Tensor Cores	336	320	256	224	192
RT Cores	84	80	64	56	48
Single Precision (TFLOPS)	38.7	34.1	27.8	23.7	19.2
RT Core (TFLOPS)	75.6	66.6	54.2	46.2	37.4
Tensor Core (TFLOPS)	309.7	272.8	222.2	189.2	153.44
GPU Memory	48GB ECC	24GB ECC	24GB ECC	20GB ECC	16GB ECC
Memory Type	GDDR6 ECC	GDDR6 ECC	GDDR6 ECC	GDDR6 ECC	GDDR6 ECC
Memory Interface	384-bit	384-bit	384-bit	320-bit	256-bit
Memory Bandwidth	768 GB/s	768 GB/s	768 GB/s	640 GB/s	448 GB/s
NVENC/NVDEC Chips	1x 2x	1x 2x	1x 2x	1x 2x	1x 1x
NVENC Max Streams	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
NVLink	Supported	Supported	Supported	Supported	Not Supported
System Interface	PCIe Gen 4 x16	PCIe Gen 4 x16	PCIe Gen 4 x16	PCIe Gen 4 x16	PCIe Gen 4 x16
Power Consumption	300W	230W	230W	200W	140W

PROFESSIONAL GRAPHICS SOLUTIONS

DESKTOP FAMILY GRAPHICS PERFORMANCE

NVIDIA PROFESSIONAL GRAPHICS CARD RELATIVE PERFORMANCE

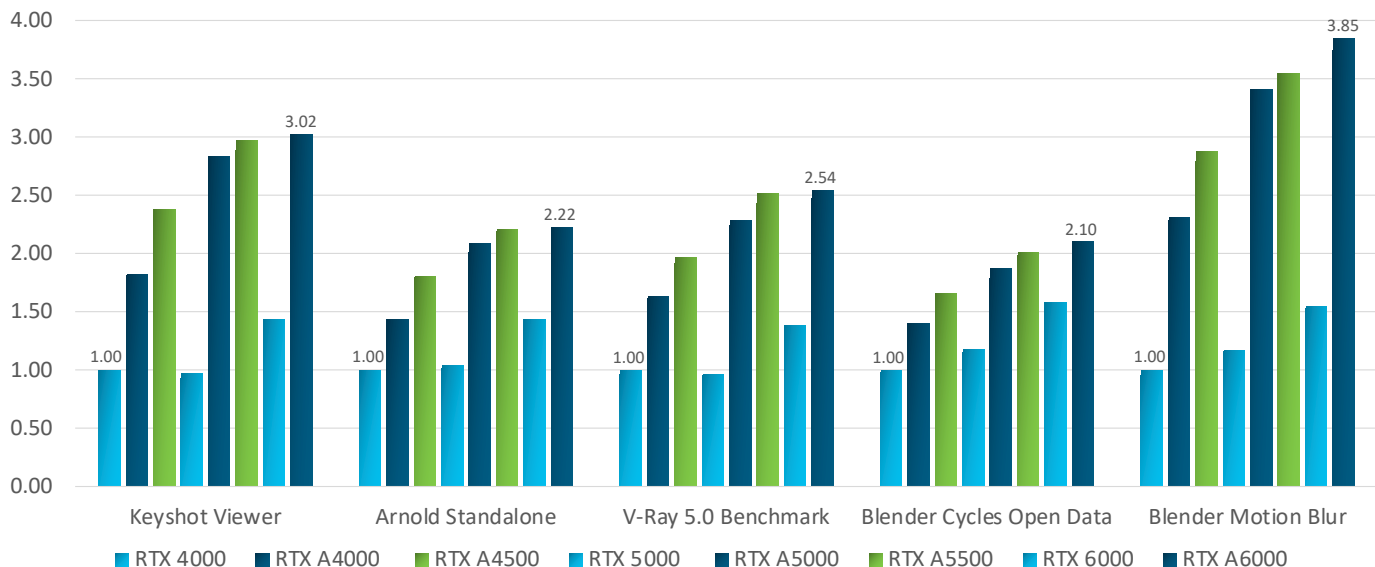
(RTX 4000 AS BASELINE)



Tests run on workstation with Xeon Gold 6154, 3GHz (3.7GHz Turbo), NVIDIA driver version 511.47, SPECviewperf 2020 v3.0, Catia, Creo, and SNX 4K subtests. (CAD) 3DS Max and Maya 4K subtests. (M&E) Tests run on workstation with Xeon Gold 6154, 3GHz (3.7GHz Turbo), NVIDIA driver version 510.39.01, GROMACS STMV (h-bond), FP32 precision. (AmberMD, GROMACS)

NVIDIA PROFESSIONAL GRAPHICS CARD RELATIVE PERFORMANCE

(RTX 4000 AS BASELINE)



Tests run on workstation with Xeon Gold 6154, 3GHz (3.7GHz Turbo), NVIDIA driver version 511.47, Keyshot v10.0 at 1080p. (Keyshot) Arnold v7.0 at 1080p. (Arnold) V-Ray v5.00.2 at 1080p for Optix subtest. (V-Ray) Blender Cycles Open Data v3.0 and Blender Motion Blur v3.0 at 1080p for Optix subtest. (Blender)