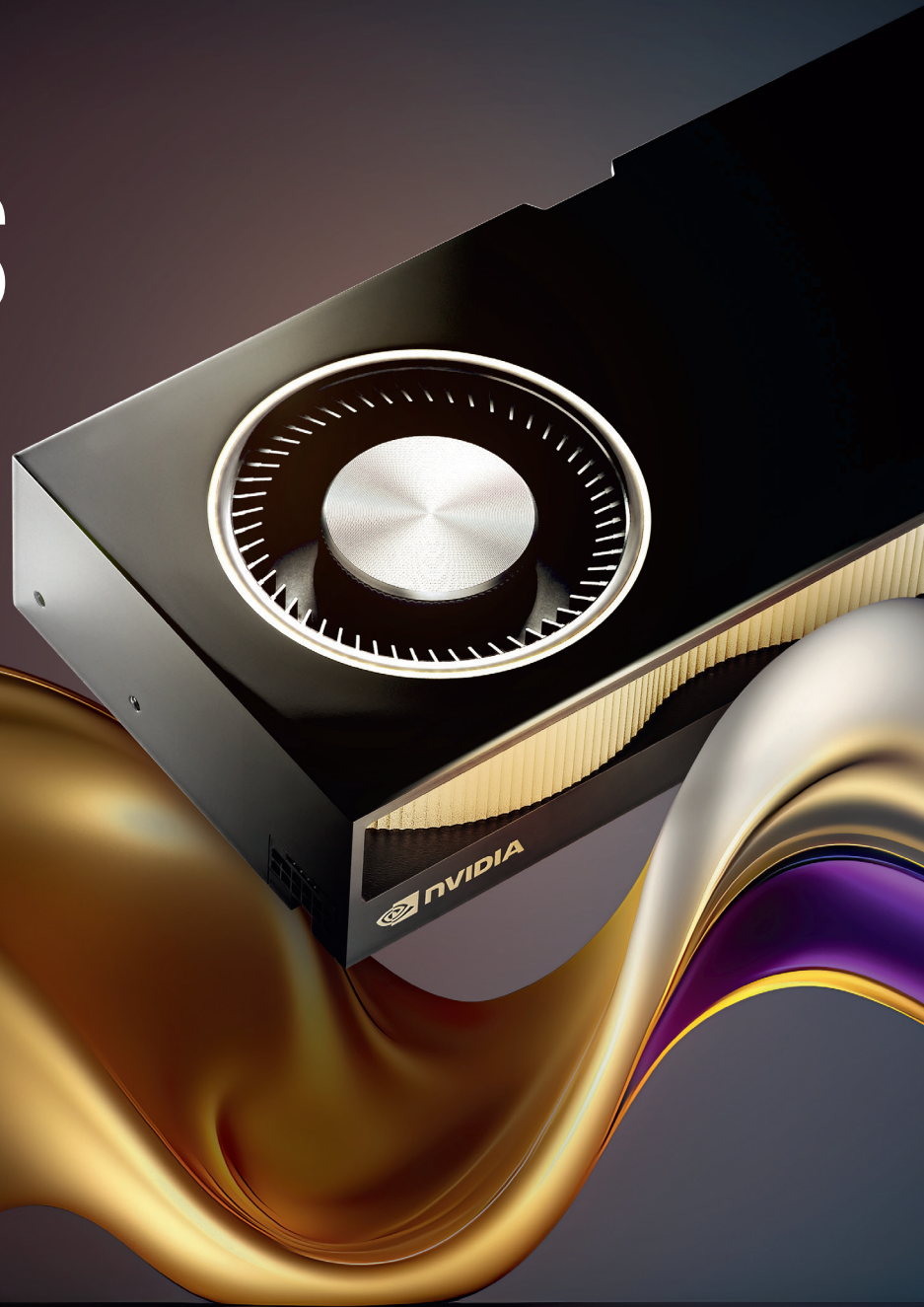


PNY[®]

NVIDIA[®]
PROFESSIONAL
GRAPHICS
SOLUTIONS



WHICH PNY PROFESSIONAL BOARD IS RIGHT

	GPU SPECIFICATIONS				PERFORMANCE	
	Part Number	CUDA Cores ¹	GPU Memory	Memory Bandwidth	Tensor Cores ²	Ray Tracing Cores ³
NVIDIA FOR DESKTOP WORKSTATIONS						
NVIDIA A800 40GB Active	VCNA800-SB	6912	40 GB	1506 GB/s	432	-
NVIDIA RTX 6000 Ada Generation	VCNRTX6000ADA-PB	18176	48 GB	960 GB/s	568	142
NVIDIA RTX 5000 Ada Generation	VCNRTX5000ADA-PB	12800	32 GB	576 GB/s	400	100
NVIDIA RTX 4500 Ada Generation	VCNRTX4500ADA-PB	7680	24 GB	432 GB/s	240	60
NVIDIA RTX 4000 Ada Generation	VCNRTX4000ADA-PB	6144	20 GB	360 GB/s	192	48
NVIDIA RTX 4000 SFF Ada Generation	VCNRTXA4000ADALP-PB	6144	20 GB	280 GB/s	192	48
NVIDIA RTX 2000 Ada Generation	NEW VCNRTXA2000ADA-PB	3328	12 GB	224 GB/s	104	26
NVIDIA RTX 2000E Ada Generation	NEW VCNRTX2000EADA-PB	3328	12 GB	224 GB/s	104	26
NVIDIA RTX A1000	NEW VCNRTXA1000-PB	2304	8 GB	192 GB/s	72	18
NVIDIA RTX A400	NEW VCNRTXA400-PB	768	4 GB	96 GB/s	24	6
NVIDIA FOR DATA CENTERS						
NVIDIA H200 NVL	NEW TCSH200NVLPcie-PB	16896	141 GB	4800 GB/s	528	-
NVIDIA H100 NVL	TCSH100NVLPcie-PB	16896	94 GB	3938 GB/s	528	-
NVIDIA L40S	TCSL40SPCIE-PB	18176	48 GB	864 GB/s	568	142
NVIDIA L40	TCSL40PCIE-PB	18176	48 GB	864 GB/S	568	142
NVIDIA A16	TCSA16M-PB	1280 x4	16 GB x4	200 GB/s x4	40 x4	10 x4
NVIDIA A10	TCSA10M-PB	9216	24 GB	600 GB/s	288	72
NVIDIA L4	TCSL4PCIE-PB	7680	24 GB	300 GB/s	240	60
NVIDIA A2	TCSA2MATX-PB	1280	16 GB	200 GB/s	40	10

1. Processing cores cannot be compared between GPU generations due to several important architectural differences that exist between designs.
 2. Adapters available for HDMI.
 3. NVIDIA QUADRO® Sync II required

FOR YOU?

	DISPLAY TECHNOLOGY							OPTIONS				
FloatingPoint Performance (Tflops)	DisplayPort ²	Maximum Active Displays	Maximum Resolution Support @ 60Hz	FSAA (Maximum)	Dimensions (mm)	Mosaic Technology	Maximum Power Consumption	AV1 Encode and Decode Engines	Vulkan Support	GPUDirect™ for Video	Graphics Synchronization ³	NVLink Bridge support
9,7 DP 19,5 SP	-	-	-	-	112 x 267	-	240W	-	✓	✓	-	✓
91,1 SP	4	4	7680x4320	64x	112 x 267	✓	300W	✓	✓	✓	✓	-
65,3 SP	4	4	7680x4320	64x	112 x 267	✓	250W	✓	✓	✓	✓	-
39,9 SP	4	4	7680x4320	64x	112 x 267	✓	210W	✓	✓	✓	✓	-
26,7 SP	4	4	7680x4320	64x	112 x 267	✓	130W	✓	✓	✓	✓	-
19,2 SP	4	4	7680x4320	64x	69 x 170	✓	70W	✓	✓	✓	✓	-
12 SP	4	4	7680x4320	64x	69 x 170	✓	70W	✓	✓	✓	-	-
9 SP	4	4	7680x4320	64x	69 x 170	✓	50W	✓	✓	✓	-	-
6,7 SP	4	4	7680x4320	64x	69 x 164	✓	50W	-	✓	✓	-	-
2,7 SP	4	4	7680x4320	64x	69 x 164	✓	50W	-	✓	✓	-	-
34 DP 67 SP	-	-	-	-	112 x 267	-	up to 600W	-	-	-	-	✓
26 DP 51 SP	-	-	-	-	112 x 267	-	up to 400W	-	-	-	-	✓
91,6 SP	4	4	7680x4320	64x	112 x 267	✓	350W	✓	✓	✓	✓	-
90,5 SP	4	4	7680x4320	64x	112 x 267	✓	300W	✓	✓	✓	✓	-
4,5 SP x4	-	-	-	-	112 x 267	-	250W	-	-	-	-	-
31,2 SP	-	-	-	-	112 x 267	-	150W	-	-	-	-	-
30,3 SP	-	-	-	-	69 x 170	-	70W	-	-	-	-	-
4,5 SP x4	-	-	-	-	69 x 170	-	40-60W	-	-	-	-	-

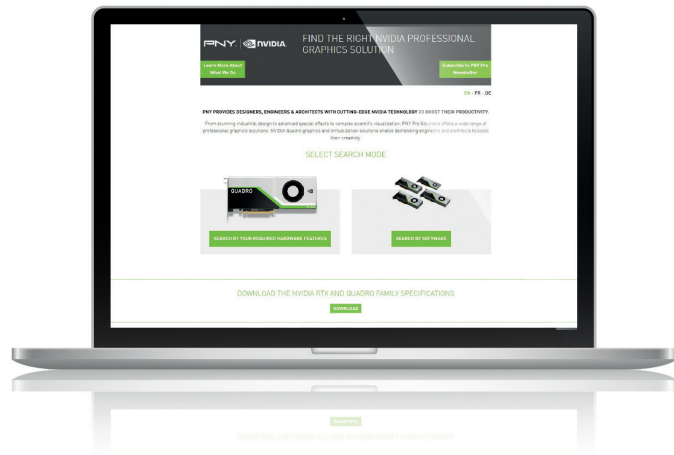
FOR MORE INFORMATION ON NVIDIA WORKSTATION PRODUCTS:

Visit: WWW.NVIDIA.COM/EN-US/DESIGN-VISUALIZATION/ & WWW.PNY.EU

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NVIDIA FOR THE DATA CENTER BY PNY

HIGH-PERFORMANCE COMPUTING		HIGHLIGHTS	IDEAL FOR
	 NVIDIA H200 NVL TCSH200NVLPcie-PB	FP64 34 TFLOPS FP64 Tensor Core 67 TFLOPS MIG Instance GPU NVLink 600 GB/s	HPC, Deep Learning, Machine Learning, Training, Data Analytics
	 NVIDIA H100 NVL TCSH100NVLPcie-PB	FP64 31 TFLOPS FP64 Tensor Core 62 TFLOPS MIG Instance GPU NVLink 600 GB/s	HPC, Deep Learning, Machine Learning, Training, Data Analytics
PROFESSIONAL VIRTUALIZATION		HIGHLIGHTS	IDEAL FOR
	 NVIDIA L40S TCSL40SPCIE-PB	FP32 91.6 TFLOPS 4x DP 1.4	HPC Rendering, Deep Learning, Machine Learning, Training, Inferencing Virtual Desktop Integration
	 NVIDIA L40 TCSL40PCIE-PB	FP32 90.5 TFLOPS 4x DP 1.4	HPC Rendering, Deep Learning, Machine Learning, Training, Inferencing Virtual Desktop Integration
	 NVIDIA A10 TCSA10M-PB	FP32 31.2 TFLOPS Single Slot Card	HPC Rendering, Deep Learning, Machine Learning, Training, Inferencing Virtual Desktop Integration
VIRTUAL DESKTOP INTEGRATION - INFERENCING		HIGHLIGHTS	IDEAL FOR
	 NVIDIA L4 TCSL4PCIE-PB	FP32 30.3 TFLOPS INT 8 485 TOPS Max. Power 72W Low Profile Form Factor	HPC, Inferencing Virtual Desktop Integration Designer / Engineer / Power User
	 NVIDIA A2 TCSA2MATX-PB	FP32 4.51 TFLOPS INT 4 144 TOPS Max. Power 60W Low Profile Form Factor	Inferencing Virtual Desktop Integration Designer / Engineer / Power User
VIRTUAL DESKTOP INTEGRATION		HIGHLIGHTS	IDEAL FOR
	 NVIDIA A16 TCSA16M-PB	4x GPU 64 GB Memory (16 GB x4) Density Optimized virtualization	Virtual Desktop Integration Office Workers

NVIDIA PROFESSIONAL GRAPHICS CARDS

BY PNY

ULTRA HIGH-END PACKAGE CONTENT IDEAL FOR



**NVIDIA RTX™ 6000
Ada Generation**
VCNRTX6000ADA-PB

1 x DP to HDMI adapter
1 x Quick Start Guide
1 x Dual 8-pin to CEM5 16-pin

Artificial Intelligence
Animation - Visualization
Broadcast - Video Editing
Oil & Gas
Medical Imaging



NVIDIA A800
VCNA800-PB

1 x Quick Start Guide
1 x 8-pin CPU to CEM5 16-pin
1 x Dual 8-pin to CEM5 16-pin

Deep Learning, Machine Learning,
Training, Inferencing, Data Analytics

HIGH-END PACKAGE CONTENT IDEAL FOR



**NVIDIA RTX™ 5000
Ada Generation**
VCNRTX5000ADA-PB

1 x DP to HDMI adapter
1 x Quick Start Guide
1 x Dual 8-pin to CEM5 16-pin

Animation - Visualization
Broadcast - Video Editing
Design Manufacturing – large models
Medical Imaging



**NVIDIA RTX™ 4500
Ada Generation**
VCNRTX4500ADA-PB

1 x DP to HDMI adapter
1 x Quick Start Guide
1 x Dual 8-pin to CEM5 16-pin

Animation - Visualization
Broadcast - Video Editing
Design Manufacturing – large models
Medical Imaging



**NVIDIA RTX™ 4000
Ada Generation**
VCNRTX4000ADA-PB

1 x DP to HDMI adapter
1 x Quick Start Guide
1 x 8-pin to CEM5 16-pin

Animation - Visualization
Broadcast - Video Editing
Design Manufacturing – large models
Medical Imaging

MID-RANGE PACKAGE CONTENT IDEAL FOR



**NVIDIA RTX™ 4000 SFF
Ada Generation**
VCNRTX4000ADALP-PB

1 x mDP to DP adapter
1 x Quick Start Guide
1 x unattached LP Bracket

Animation / Video Editing
Manufacturing – large models
Medical Imaging

NEW



**NVIDIA RTX™ 2000
Ada Generation**
VCNRTX2000ADA-PB

1 x mDP to DP adapter
1 x Quick Start Guide
1 x unattached LP Bracket

Animation / Video Editing
Manufacturing – med/large models
Medical Imaging

NEW



**NVIDIA RTX™ 2000E
Ada Generation**
VCNRTX2000EADA-PB

1 x mDP to DP adapter
1 x Quick Start Guide
1 x unattached LP Bracket

Animation / Video Editing
Manufacturing – med/large models
Medical Imaging

NEW



NVIDIA RTX™ A1000
VCNRTXA1000-PB

4 x mDP to DP adapter
1 x Quick Start Guide
1 x unattached LP Bracket

Animation
Video Editing
Manufacturing – medium models

ENTRY-LEVEL PACKAGE CONTENT IDEAL FOR

NEW



NVIDIA RTX™ A400
VCNRTXA400-PB

4 x mDP to DP adapter
1 x Quick Start Guide
1 x unattached LP Bracket

Manufacturing – volume CAD

DEDICATED TO LOW POWER SYSTEMS PACKAGE CONTENT POWER LIMIT

NEW



**NVIDIA RTX™ 4000 SFF
Ada Generation**
VCNRTX4000ADALP-PL

1 x unattached LP Bracket

Power Limit 50W

NEW



**NVIDIA RTX™ 2000
Ada Generation**
VCNRTX2000ADA-PL

1 x unattached LP Bracket

Power Limit 50W

NEW



NVIDIA RTX™ A1000
VCNRTXA1000-PL

1 x unattached LP Bracket

Power Limit 35W

NEW



NVIDIA RTX™ A400
VCNRTXA400-PL

1 x unattached LP Bracket

Power Limit 30W

BENEFITS OF PROFESSIONAL GRAPHICS



AMPERE ARCHITECTURE

BUILT FOR THE DATA CENTER

Delivered application performance is more than raw flops. Computational professionals depend on mission critical applications to accelerate discoveries and insights at scale. It starts with the world's fastest accelerators and includes a reliable infrastructure, the ability to monitor and manage that infrastructure, and the ability to quickly move data where it is needed. The NVIDIA Accelerated Computing Platform provides all of these to deliver unprecedented performance in scientific, analytics, engineering, consumer, and enterprise applications.

Differentiated Engineering:

Low Operating Voltage for Long Term Reliability.
Large Guard-Band for Guaranteed Quality.
Error Correction Code (ECC) for Data Integrity.

Extensive Qualification & Testing:

Long Burn-in-Testing.
Zero Error Tolerance at Aggressive Clocks.
Result: 5% of GPUs screened out.
Guaranteed Quality.

Enterprise Tools:

Simplify Data Center Operations.
Manage and Monitor GPUs.
System Diagnostics, GPU recovery, RMA diagnostics.
GPU Cluster Management.



Performance:

Application specific feature development & tuning.
Driver optimizations to maximize GPU features.
Unique features to support pro workflows.
IT tools for easy deployment & management.

Reliability:

Application specific testing by NVIDIA.
100+ professional application certifications by ISVs.
Unique rock-solid driver with deterministic release schedule.
Designed and built by NVIDIA to a single specification for 24/7 reliability and stability.

Support:

Deep workflow experience across vertical industries.
Long-Life Cycle availability and support.
Bulk availability for large Enterprise.
Global technical pre-sales and post-sales support.

NVIDIA RTX™ PLATFORM

MOST POWERFUL VISUAL COMPUTING

The term "professional workstation" implies many things to many people. However, it usually translates to expectations of high quality, excellent reliability, responsive support, and high performance. The NVIDIA professional series is built to provide this high level of quality and reliability.

NVIDIA RTX™ Application Value-add:

Solidworks Realview.
3ds Max Shade.
Solidworks Visualize.
PTC Creo OIT.
Solidworks Ambient Occlusion.
Catia Live Rendering.

NVIDIA RTX™ Unique Features:

Large memory with ECC.
NVIDIA RTX Desktop Manager.
GPU direct for Video.
Higher Level of FSAA (64x).
Multi-GPU.
Enterprise IT Tools.
Iray Server Streaming.
Quad Buffered Stereo.
Mosaic.
Warp & Blend.
Bezel Correction & Overlap.
Genlock & Framelock.

WHICH PNY PROFESSIONAL BOARD TO USE FOR YOUR APPLICATION?

Should I use a Professional Graphics Card?

PNY offers a suite of professional solutions that enable designers, manufacturers, scientists and researchers to do their work smarter, faster, with greater reliability and with energy efficiency. If you answer one or more of the below questions with yes we recommend to use professional NVIDIA cards.

Does your work involve creating, rendering, or visualizing data and images?

NVIDIA's professional cards are fully compatible, tested & certified on all your professional applications for more performance & reliability.

Is hardware reliability important?

Time spent troubleshooting is lost time for your creativity. NVIDIA professional graphics cards are designed for 24/7 operation with pro support.

Do you prefer long availability for your hardware?

Professional NVIDIA cards are usually available for 3 or more years while gaming cards often have a lifetime below 6 months.

Which NVIDIA for my application?

APPLICATION					
Microsoft Office		Siemens NX			
Trimble SketchUp		PTC Creo			
Adobe Illustrator CC Photoshop CC		After Effects CC Premiere Pro CC			
Autodesk AutoCAD, Inventor, Revit				Maya, 3ds MAX	
	Dassault Systems Solidworks	CATIA	3DEXCITE CATIA Live Rendering	Solidworks Visualize ABAQUS, SIMULA	
		The Foundry Mari, Nuke		Ansys Mechanical	
			Schlumberger Petrel		
Small/simple CAD models, Video, entry PLM • ISV Certs • Higher performance vs. IGP, gfx GPU • NVIDIA Mosaic	Medium size/complexity CAD models, basic DCC, Medical Imaging, PLM • +2GB memory • Approx. 118% faster	Large/complex CAD models, Advanced DCC, Medical Imaging • +4GB memory • Approx. 37% faster • NVIDIA Mosaic with sync	Large/complex CAD models, Seismic exploration, complex DCC effects • +8GB memory • Approx. 65% faster • Error Correcting Code (ECC) Memory	Largest CAD models, CAE, Photo-realistic rendering, Seismic exploration, GPGPU compute • +8GB memory • Approx. 61% faster	Most demanding rendering and GPGPU compute applications • Multi-GPU solution • Highest performance
NVIDIA RTX A400	NVIDIA RTX 2000(E) NVIDIA RTX A1000	NVIDIA RTX 4000 NVIDIA RTX 4000 SFF	NVIDIA RTX 5000 NVIDIA RTX 4500	NVIDIA RTX 6000 NVIDIA RTX A800	2x NVIDIA RTX 6000 2x NVIDIA RTX A800
ENTRY	MID-RANGE	HIGH-END		ULTRA HIGH-END	



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[HTTPS://PNY.QUADRO-SELECTOR.COM](https://pny.quadro-selector.com)

PNY ADVANTAGE

"PNY PROVIDES UNSURPASSED SERVICE AND COMMITMENT TO ITS PROFESSIONAL GRAPHICS CUSTOMERS"

- 3 Year standard warranty
- Pre-sales support and system configuration assistance
- Dedicated Field Application engineers
- Direct tech support hotlines
- Support escalation for prompt issue resolution
- Certified software support and bug reporting
- Published product support and training materials
- Advanced replacement options for mission-critical deployments
- Long product life cycles and availability
- Loyalty partner channel programs

COMPATIBILITY & SUPPORT FOR ALL WORKSTATION BRANDS

PNY WARRANTY EXTENSION SERVICE

- To better protect your investment, PNY offers a comprehensive extended 5 Year warranty to your NVIDIA® card from PNY®.

MAIN FEATURES

- Additional 2 Year Extended Warranty Service for your NVIDIA® card by PNY®.
- Advanced Product Replacement (for European Union countries, Norway and Switzerland).

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