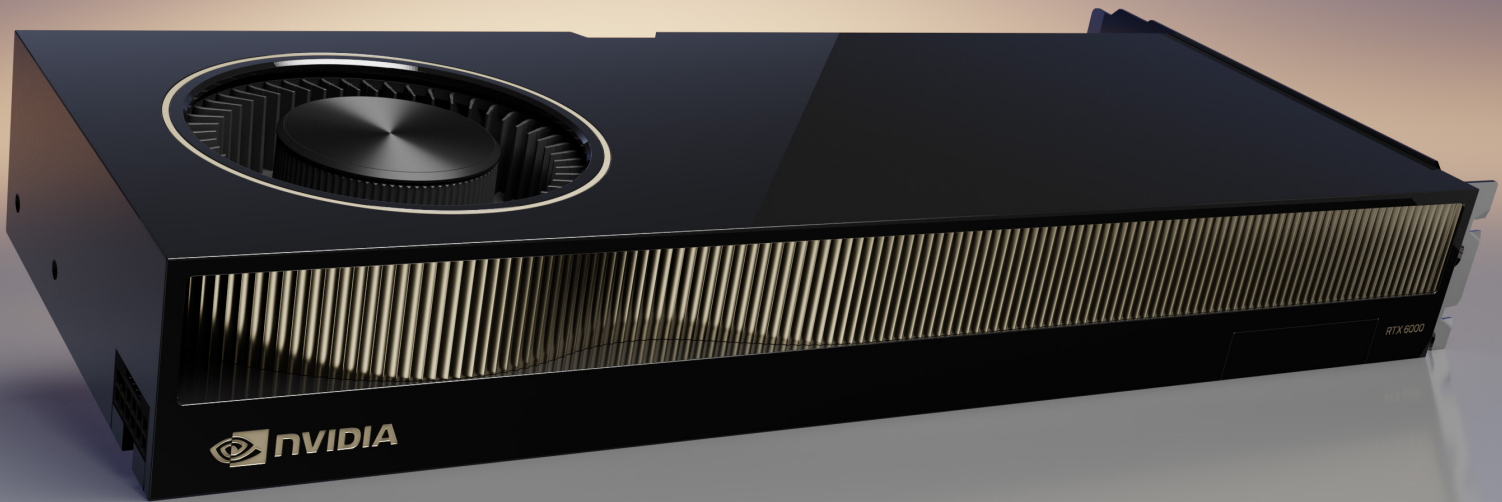




The Right Tools for Professionals

NVIDIA RTX Workstation GPUs

March 2023



NVIDIA Professional Solution Guide

Find the best professional graphics solution for your customers based on their needs.

The current NVIDIA RTX™ lineup includes NVIDIA Ada Lovelace, Ampere, Turing, and Volta GPU architectures. **Please request that your customers contact their software providers for the latest information on application certifications and support.**

1

Ask:

- > Are you a technical professional?
- > Is your title designer, engineer, architect, scientist, analyst, data scientist or researcher?
- > Do you create, render, or visualize large data and images for your work?
- > Do you train or use neural networks?
- > Do you use computationally intensive applications or run simulations?

2

Yes

You have found an NVIDIA RTX Customer. Ask:

- > What industry do you work in or what is your job?
- > What is the primary application you use?

No

- > Go to pages 8-9 for display and video wall recommendations for other industries and professionals.

3

Good	Better	Best
<ul style="list-style-type: none"> > Occasional use of application > Small objects and assemblies > About 10% of the users 	<ul style="list-style-type: none"> > Regular use of application > Average to large objects and assemblies > Using all application features > About 80% of users 	<ul style="list-style-type: none"> > Pushing the application to its limits > Extremely large objects and assemblies > Using all application features > About 10% of users

Design/Engineering/Manufacturing

Altair® HyperWorks®	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 Small Form Factor (SFF) Ada Generation / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada Generation / RTX A6000
Altair AcuSolve®	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX A5000 / A5500	NVIDIA RTX 6000 Ada / RTX A6000
Altair ultraFluidX® Altair nanoFluidX	Desktop	2x NVIDIA RTX 6000 Ada / RTX A6000	4x NVIDIA RTX 6000 Ada / RTX A6000	4x NVIDIA RTX 6000 Ada / RTX A6000
Altair OptiStruct	Desktop	Quadro GV100	Quadro GV100	Quadro GV100
Altair Thea Render®	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	Multiple NVIDIA RTX 6000 Ada / RTX A6000
ANSYS® Discovery	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000 / Quadro GV100
ANSYS Workbench™, AIM, EnSight, LS-PrePost	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
ANSYS Mechanical, ANSYS Fluent and ANSYS HFSS	Desktop	Quadro GV100	Quadro GV100	2x Quadro GV100

		Good	Better	Best
ANSYS HFSS SBR+	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
ANSYS SPEOS	Desktop	Multiple NVIDIA RTX 4000 SFF Ada / NVIDIA RTX A5500	Multiple NVIDIA RTX 6000 Ada / RTX A6000	Multiple RTX 6000 Ada
Autodesk® 3ds Max®	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Autodesk AutoCAD®	Desktop	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4500
Autodesk Fusion 360	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Autodesk Netfabb 2018	Desktop	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500
Autodesk Inventor®	Desktop	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500
Autodesk VRED	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Beta CAE ANSA, META	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
COMSOL	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Dassault Systèmes 3DEXCITE DELTAGEN / DELTAVIEW	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Dassault Systèmes CATIA V5-6 and 3DEXPERIENCE	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Dassault Systèmes CATIA Live Rendering	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Dassault Systèmes SIMULIA CST STUDIO	Desktop	NVIDIA RTX A5500	NVIDIA RTX A6000	NVIDIA RTX 6000 Ada / RTX A6000 / Quadro GV100
Dassault Systèmes SIMULIA Abaqus	Desktop	NVIDIA RTX A5500	NVIDIA RTX A6000	2x NVIDIA RTX 6000 Ada / 2x Quadro GV100
Dassault Systèmes SIMULIA PowerViz	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Dassault Systèmes SOLIDWORKS	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Dassault Systèmes SOLIDWORKS Visualize²	Desktop	NVIDIA RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	2x NVIDIA RTX 6000 Ada / RTX A6000
ESI Group IC.IDO	Desktop	NVIDIA RTX 6000 Ada / RTX A6000	2x NVIDIA RTX 6000 Ada / RTX A6000	2x NVIDIA RTX 6000 Ada / RTX A6000
Lumiscaphe P3D Design	Desktop	NVIDIA RTX 6000 Ada / RTX A6000	NVIDIA RTX 6000 Ada / RTX A6000	NVIDIA RTX 6000 Ada / RTX A6000

		Good	Better	Best
MSC Apex Generative Design	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX A5500	NVIDIA RTX 6000 Ada / RTX A6000
MathWorks MATLAB	Desktop	Quadro GV100	Quadro GV100	2x Quadro GV100
Hexagon/MSC Nastran	Desktop	Quadro GV100	Quadro GV100	2x Quadro GV100
Hexagon/MSC Patran Apex, ADAMS	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
PTC Creo	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
PTC Creo Simulation Live	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000 / Quadro GV100
PTC Creo Generative Topology Optimization Extension (GTO)	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	Quadro GV100
Siemens Simcenter 3D, STAR-CCM+, and FEMAP	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Siemens NX	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Siemens NX Topology Optimizer	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Siemens NX + Ray Traced Studio (Iray)	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Siemens Solid Edge	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Siemens Solid Edge Generative Design	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Siemens Simcenter Nastran	Desktop	Quadro GV100	Quadro GV100	2x Quadro GV100
Virtual Reality Viewer (VR Viewer)				
ANSYS VRXPERIENCE	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Autodesk Live	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Beta CAE Meta VR	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Dassault Systèmes eDrawings Pro VR	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Luxion KeyShot KeyVR	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000

		Good	Better	Best
Siemens NX VR, Process Simulate VR, Teamcenter VR	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Siemens Simcenter STAR-CCM+ VR	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Architecture/Engineering/Construction/Operations				
Autodesk 3ds Max®	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	Up to 3x NVIDIA RTX 6000 / RTX A6000
Autodesk AutoCAD®	Desktop	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500
Autodesk ReCap 360	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000 / Quadro GV100
Autodesk Revit®	Desktop	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500
Bentley ContextCapture	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Bentley LumenRT	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX A5500	NVIDIA RTX 6000 Ada / RTX A6000
Bentley MicroStation	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Enscape Enscape3d	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	Up to 3x NVIDIA RTX 6000 / RTX A6000
Hexagon/BricsCAD	Desktop	NVIDIA RTX T1000 8B	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4500
Hexagon Geospacial ERDAS IMAGINE	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Hexagon Geospacial ImageStation	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Luciad Lightspeed	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
McNeel RHINO	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Nemetschek Allplan	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Nemetschek Graphisoft ArchiCAD	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Nemetschek Vectorworks	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Trimble Sketchup Pro	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000

		Good	Better	Best
Modeling/Animation/Visualization/Effects				
Adobe After Effects CC	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Adobe Substance 3D Stager	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Autodesk 3ds Max	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Autodesk Arnold	Desktop	NVIDIA RTX 6000 Ada / RTX A6000	NVIDIA RTX 6000 Ada / RTX A6000	2x NVIDIA RTX 6000 Ada / RTX A6000
Autodesk Maya®	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Chaos V-Ray GPU	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	Multiple NVIDIA RTX 6000 Ada / RTX A6000
Foundry NUKE	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Luxion KeyShot	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	2x NVIDIA RTX 6000 / RTX A6000
Maxon CINEMA 4D	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Otoy Octane	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	Multiple NVIDIA RTX 6000 Ada / RTX A6000
NewTek Lightwave™	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Redshift Renderer	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	Multiple NVIDIA RTX 6000 Ada / RTX A6000
SideFX Houdini	Desktop	NVIDIA RTX 6000 Ada / RTX A6000	2x NVIDIA RTX 6000 Ada / RTX A6000	Multiple NVIDIA RTX 6000 Ada / RTX A6000
Substance 3D Stager	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Video Editing				
Adobe Media Encoder	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Adobe Premiere Pro	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Autodesk Flame	Desktop	NVIDIA RTX 6000 Ada / RTX A6000	NVIDIA RTX 6000 Ada / RTX A6000	2x NVIDIA RTX 6000 Ada / RTX A6000
Avid® Media Composer®	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000

		Good	Better	Best
Blackmagic Design DaVinci Resolve	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	Multiple NVIDIA RTX 6000 Ada / RTX A6000
ColorFront Transkoder & On-Set Dailies	Desktop	NVIDIA RTX A5000	NVIDIA RTX 6000 Ada / RTX A6000	Multiple NVIDIA RTX 6000 / RTX A6000
FilmLight Baselight	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	2x NVIDIA RTX 6000 Ada / RTX A6000
Grass Valley Edius®	Desktop	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500
Magix Vegas Pro™	Desktop	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500
RED Digital Cinema REDCINE-X PRO	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000	2x NVIDIA RTX 6000 Ada / RTX A6000
Image Editing/Artistic Design				
Adobe® Photoshop®	Desktop	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500
Adobe® Illustrator®	Desktop	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500
Adobe Substance 3D Sampler	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	2x NVIDIA RTX 4000 SFF Ada / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Adobe Substance 3D Designer	Desktop	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000
Adobe Substance 3D Painter	Desktop	NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	2x NVIDIA RTX 4000 SFF Ada / RTX A4000 / RTX A4500	NVIDIA RTX 6000 Ada / RTX A6000

1 For visualization

2 SOLIDWORKS Visualize users may require more powerful and/or multiple GPUs for improved rendering performance, depending on rendering frequency and scene complexity.

Please request that your customer contact their software provider for the latest information on application certifications and support.

Find the best professional graphics solution for your customers based on their needs.

Ask:

- > Are you using integrated graphics?
- > Are you looking to drive a single or multiple displays or video walls?
- > Do you work in financial services, education, insurance, any commercial environments, government agencies, hospitals, or call centers?

Yes

Recommend*

Are you...	Work Environment		Good	Better	Best	Background and Advantages
Using Windows 10 or 11? Customer is using integrated graphics.	Windows 10/11 is graphically intense. A dedicated graphics card will give a better overall user experience. For multiple displays, customer will need a dedicated graphics card.	Desktop	NVIDIA T400 4GB	NVIDIA T1000 8GB	NVIDIA RTX 4000 SFF Ada Generation	<p>All cards support up to four displays. For additional or high-resolution displays, recommend NVIDIA RTX 4000 SFF.</p> <ul style="list-style-type: none"> > NVIDIA T1000 8GB provides an additional port, increased performance, more memory, more CUDA® Cores, and higher single-precision performance. > NVIDIA RTX 4000 SFF Ada provides increased performance, more memory, more CUDA Cores, addition of RT and Tensor Cores, and higher single-precision performance.
Using Linux?	<p>Is this to drive a single display?</p> <p>Yes, tends to be for a compute solution.</p> <p>No, is this for high resolution display or video wall?</p>	Desktop	NVIDIA T400 4GB	NVIDIA T1000 8GB	NVIDIA RTX 4000 SFF Ada	<p>For high-resolution displays, recommend NVIDIA RTX 4000 SFF.</p> <ul style="list-style-type: none"> > NVIDIA T1000 8GB provides an additional port, increased performance, more memory, and includes more CUDA Cores and higher single-precision performance. > NVIDIA RTX 4000 SFF Ada provides increased performance, more memory, more CUDA Cores, addition of RT and Tensor Cores, and higher single-precision performance.
Using 4K displays?	No? Do you plan on using 4K displays in the future?	Desktop	NVIDIA T400 4GB	NVIDIA T1000 8GB	NVIDIA RTX 4000 SFF Ada	<p>Future proof your customer for when they will use higher resolution displays as they will need more frame buffer memory.</p> <ul style="list-style-type: none"> > NVIDIA T1000 8GB provides an additional port, increased performance, more memory, more CUDA Cores, and higher single-precision performance. > NVIDIA RTX 4000 SFF Ada provides increased performance, more memory, more CUDA Cores, addition of RT and Tensor Cores, and higher single-precision performance.
Building a video wall or using for digital signage? Do you need to drive 8 displays or more?			2x NVIDIA T1000 8GB	2x NVIDIA RTX A4500	2x NVIDIA RTX 6000 Ada / RTX A6000	<p>Two cards are needed if driving eight displays.</p> <ul style="list-style-type: none"> > RTX A4500 allows use of Quadro Sync II and NVIDIA Mosaic multi-display technology, and the user gets 20GB of memory and error correcting code (ECC). > RTX 6000 Ada / RTX A6000 each provides 48GB of memory and more performance.

Yes		Recommend*			
Are you...	Work Environment	Good	Better	Best	Background and Advantages
Currently using or have you used an older P-Series?	If yes, your customer has an environment that uses multiple displays.				
	Ask your customer which graphics card they use and look below for recommendations				
	Are you using P400?	NVIDIA T400 4GB	NVIDIA T1000 8GB	NVIDIA RTX 4000 SFF Ada / RTX A2000 12GB	<ul style="list-style-type: none"> > The Advantages of NVIDIA T1000 8GB is an additional port, better performance, and includes more CUDA Cores, and higher single-precision performance. > The advantages of NVIDIA RTX 4000 SFF Ada are an additional port, better performance, more CUDA Cores, addition of RT and Tensor Cores, and higher single-precision performance.
	Are you using P620?	NVIDIA T1000 8GB	NVIDIA RTX A2000 12GB	NVIDIA RTX 4000 SFF Ada / RTX A4500	<ul style="list-style-type: none"> > NVIDIA T1000 8GB has the same number of display ports, but the user gets enhanced graphics performance. > RTX A2000 12GB provides more performance, more memory, and includes dedicated hardware for real-time ray tracing and AI acceleration. > RTX 4000 SFF Ada / RTX A4500 provides more memory, better performance, more CUDA, RT, and Tensor cores, and higher single-precision performance.
Are you using P620?	2x NVIDIA T1000 8GB	2x NVIDIA RTX A4500	2x NVIDIA RTX 6000 Ada / RTX A6000	<p>Two cards are needed if driving eight displays.</p> <ul style="list-style-type: none"> > RTX A4500 allows use of Quadro Sync II and NVIDIA Mosaic multi-display technology, and the user gets 20GB of memory and error correcting code (ECC). > RTX A6000 / RTX 6000 Ada provides 48GB of memory and more performance. 	

*All NVIDIA RTX and Quadro graphics cards offer power efficiencies to decrease power consumption and minimize cost of ownership (TCO).

Enterprise Graphics vs. Consumer Graphics

NVIDIA makes industry-leading graphics cards for a variety of uses.

When you come across a customer who's using gaming cards for professional applications, make sure they're aware of the unique benefits that NVIDIA RTX professional graphics cards offer.

Benefits of Professional Graphics Over Consumer Graphics

Enterprise graphics cards are built for years of non-stop use:

- > Designed and tested for reliable performance 24 hours a day, 7 days a week.
- > Extended availability and support is offered on all professional cards, including bug fixes for professional applications.

Enterprise graphics cards are built for workplace environments:

- > More GPU memory, smaller footprints, and less power consumption.
- > Deployment can be for tens or hundreds of PCs in offices.
- > **ISV Application certified:** NVIDIA RTX professional GPUs and NVIDIA RTX Enterprise drivers are tested and certified by professional application ISVs to ensure stability, performance, and reliability for their professional customers.

NVIDIA graphics cards provide enterprise support tools for remote administration and deployment, as well as professional features such as:

- > **NVIDIA RTX Desktop Manager software** features a full suite of display management tools like flexible window snapping, user profiles, window management, and hotkey support.
- > **NVIDIA RTX Experience** delivers productivity tools such as the ability to record video at up to 8K, automatic alerts for driver update, gaming features, and application optimization.
- > **NVIDIA Mosaic** display technology lets you combine up to 16 high-resolution displays or projectors to create a seamless large-scale visualization.
- > **Advanced 3D stereo** supports stereoscopic 3D display on HDMI 3D TVs, projectors, and displays, allowing for viewing images and ultrasounds in 3D.

Performance	Enterprise	Gaming	Integrated
Professional application-specific feature development and tuning	•		
Driver optimizations to maximize professional application performance	•		
Unique features to support professional workflows	•		
IT tools for easy deployment and management	•		
Gaming profile*	•		
Extreme performance scaling with Multi-GPU	•		
Reliability			
Professional application-specific testing by NVIDIA	•		
100+ professional application certifications by independent software vendors (ISVs)	•		
Certified across workstation platforms by leading original equipment manufacturers (OEMs)	•		
Unified, rock-solid driver with deterministic release schedule	•		
Tested and certified by NVIDIA and OEM partners for 24/7 reliability	•		
Extended availability	•		
Support			
Deep workflow experience across vertical industries	•		
Long-life cycle availability and support	•		
Bulk availability for large enterprises	•		
Global technical pre-sales and post-sales support	•		
Online end-user forums for fast support from subject matter experts	•		

* Most games will run fine on NVIDIA RTX and Quadro graphics cards. Enable the "Game Development" profile if any unexpected results occur while gaming.

Ready to Get Started?

To learn more about NVIDIA RTX Professional solutions, visit www.pny.com/pro