

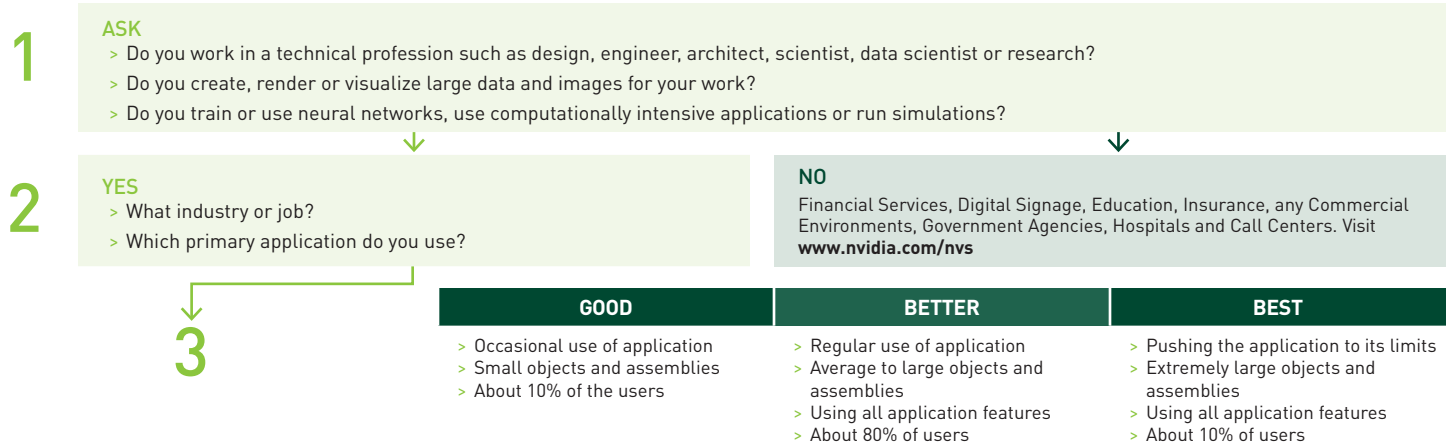


THE RIGHT TOOLS FOR
PROFESSIONALS
NVIDIA WORKSTATION GPU_s

NVIDIA PROFESSIONAL SOLUTION GUIDE

The best solution for customers on their use case.

The current Quadro lineup includes Maxwell, Pascal and Volta architectures. **Please request that your customer contact their software provider for the latest information on application certifications and support.**



DESIGN/ENGINEERING/MANUFACTURING

Application	Platform	Good GPU	Better GPU	Best GPU
Altair® HyperWorks®	Desktop	NVIDIA Quadro® P2000	NVIDIA Quadro P4000	NVIDIA Quadro P5000
	Mobile	Quadro® M2200	Quadro P4000	Quadro P5000
ANSYS® Discovery Live	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
ANSYS Workbench™, ANSYS AIM, ANSYS EnSight	Desktop	Quadro P1000	Quadro P4000	Quadro P5000
	Mobile	Quadro M1200	Quadro P4000	Quadro P5000
ANSYS Mechanical, ANSYS Fluent, ANSYS HFSS	Desktop	Quadro GP100	Quadro GP100 / Quadro GV100	2x Quadro GP100 / 2x Quadro GV100
	Mobile¹	Quadro M1200	Quadro P4000	Quadro P5000
Autodesk 3ds Max®	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
	Mobile	Quadro M2200 / P3000	Quadro P4000	Quadro P5000
Autodesk® AutoCAD®	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Autodesk Fusion 360	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Autodesk Netfabb 2018	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Autodesk Inventor®	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro M1200	Quadro M2200	Quadro P4000
Autodesk MoldFlow®	Desktop	Quadro GP100	Quadro GP100 / Quadro GV100	2x Quadro GP100 / 2x Quadro GV100
	Mobile	Quadro M1200	Quadro M2200	Quadro P4000
Autodesk Showcase™	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Autodesk VRED	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Beta CAE ANSA, META	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
COMSOL	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Dassault Systèmes 3DEXCITE DELTAGEN / DELTAVIEW	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Dassault Systèmes CATIA V5-6 and 3DEXPERIENCE	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Dassault Systèmes CATIA Live Rendering	Desktop	Quadro P5000	Quadro P6000	Quadro GP100 / Quadro GV100
	Mobile	Quadro P5000	Quadro P5000	Quadro P5000
Dassault Systèmes SIMULIA Abaqus, SIMULIA CST STUDIO	Desktop	Quadro GP100	Quadro GP100 / Quadro GV100	2x Quadro GP100 / 2x Quadro GV100
	Mobile¹	Quadro M1200	Quadro P4000	Quadro P5000
Dassault Systèmes SOLIDWORKS	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Dassault Systèmes SOLIDWORKS Visualize²	Desktop	Quadro P4000	Quadro 2x P4000	Quadro GP100 / Quadro GV100
	Mobile	Quadro P4000	Quadro P5000	Quadro P5000
ESI Group IC.IDO	Desktop	Quadro P5000	Quadro 2x P5000	3x Quadro P6000
	Mobile	Quadro P5000	Quadro P5000	Quadro P5000
EXA PowerViz	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
LS-PrePost	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Lumiscaphe P3D Design	Desktop	Quadro P5000	Quadro P6000	Quadro GP100 / Quadro GV100
	Mobile	Quadro P5000	Quadro P5000	Quadro P5000

DESIGN/ENGINEERING/MANUFACTURING cont.

		GOOD	BETTER	BEST
MathWorks MATLAB	Desktop	Quadro GV100	Quadro GP100 / Quadro GV100	2x Quadro GP100 / 2x Quadro GV100
	Mobile	Quadro P5000	Quadro P5000	Quadro P5000
MSC Nastran	Desktop	Quadro GP100	Quadro GP100 / Quadro GV100	2x Quadro GP100 or 2x Quadro GV100
	Mobile	Not Applicable	Not Applicable	Not Applicable
MSC Patran, Apex, ADAMS	Desktop	Quadro P620	Quadro P1000	Quadro P4000
	Mobile	Quadro M1200	Quadro M2200	Quadro P4000
PTC Creo	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Siemens CD-adapco STAR-CCM+	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Siemens NX, SimCenter, NX CAE, FEMAP	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Siemens NX + Ray Traced Studio (Iray)	Desktop	Quadro P4000	Quadro 2x P4000	Quadro P6000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Siemens PLM Solid Edge	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Siemens NX Nastran	Desktop	Quadro GP100	Quadro GP100 or Quadro GV100	2x Quadro GP100 or 2x Quadro GV100
	Mobile	Not Applicable	Not Applicable	Not Applicable

VIRTUAL REALITY VIEWER (VR VIEWER)

Autodesk Live	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Siemens VR Viewer	Desktop	Quadro P3000	Quadro P4000	Quadro P5000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000

ARCHITECTURE / ENGINEERING / CONSTRUCTION

Autodesk 3ds Max®	Desktop	Quadro P4000	Quadro P5000	Quadro GV100 / Quadro GV100
	Mobile	Quadro M2200 / Quadro P3000	Quadro P4000	Quadro P5000
Autodesk ReCap 360	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Autodesk Revit®	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Nemetschek Allplan	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Nemetschek Graphisoft ArchiCAD	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Nemetschek Vectorworks	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M2200	Quadro P4000

MODELING/ANIMATION /VISUALIZATION/EFFECTS

Autodesk 3ds Max	Desktop	Quadro P2000	Quadro P5000	Quadro GP100 / Quadro GV100
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Autodesk Maya®	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Autodesk Maya for GPU Ray Tracing	Desktop	Quadro P6000	2x Quadro P6000	3x Quadro P6000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Maxon CINEMA 4D	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
NewTek Lightwave™	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Side Effects Houdini	Desktop	Quadro P6000	2x Quadro P6000	3x Quadro P6000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Adobe After Effects CC³	Desktop	Quadro P4000	2x Quadro P5000	2x Quadro P6000
	Mobile	Quadro P3000	Quadro P4000	Quadro P5000

VIDEO EDITING

Adobe® Media Encoder	Desktop	Quadro P2000	Quadro P5000	Quadro P6000
	Mobile	Quadro M2200	Quadro P4000	Quadro M5000M
Adobe® Premiere Pro® CC	Desktop	Quadro P2000	Quadro P5000	2x Quadro P6000
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Avid® Media Composer®	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Grass Valley Edius®	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M1200	Quadro M2200	Quadro P4000
Magix Vegas Pro™	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M1200	Quadro M2200	Quadro P4000

IMAGE EDITING / ARTISTIC DESIGN

Adobe® Photoshop® CC	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M1200	Quadro P3000
Adobe® Illustrator® CC	Desktop	Quadro P620	Quadro P2000	Quadro P4000
	Mobile	Quadro M620	Quadro M1200	Quadro P3000
Allegorithmic Substance Designer	Desktop	Quadro P2000	Quadro P4000	Quadro P6000
	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Allegorithmic Substance Painter	Desktop	Quadro P4000	2x Quadro P4000	Quadro P6000
	Mobile	Quadro P4000	Quadro M5000M	Quadro P5000



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OIL & GAS

		GOOD	BETTER	BEST
Halliburton (Landmark) DecisionSpace®, GeoProbe®	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
	Mobile	Quadro P4000	Quadro P5000	Quadro P5000
Paradigm Geophysical VoxelGeo®	Desktop	Quadro P5000	Quadro P6000	2x Quadro P6000
	Mobile	Quadro P5000	Quadro P5000	Quadro P5000
Paradigm Geophysical EarthStudy360®	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
	Mobile	Quadro P4000	Quadro P5000	Quadro P5000
Schlumberger Petrel	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
	Mobile	Quadro P4000	Quadro P5000	Quadro P5000
IHS KINGDOM	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
	Mobile	Quadro M2200	Quadro P3000	Quadro P4000

1 Mobile GPUs are for ANSYS HFSS and SIMULA CST STUDIO only. | 2 SOLIDWORKS Visualize users may require more powerful and/or multiple GPUs for improved rendering performance, depending on rendering frequency and scene complexity. Technology not yet implemented by Adobe in After Effects CC for GPUs based on the latest NVIDIA Maxwell architecture. Quadro GPUs affected are Quadro P6000 & P2000 | 3 NVIDIA OptiX | **Please request that your customer contact their software provider for the latest information on application certifications and support.**

PROFESSIONAL GRAPHICS VS CONSUMER GRAPHICS

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

When you come across a customer who is using gaming cards for professional applications, make sure they are aware of the unique benefits that NVIDIA Quadro graphics cards offer.

BENEFITS OF PROFESSIONAL GRAPHICS OVER CONSUMER GRAPHICS

Quadro hardware is built for years of non-stop use

- > Quadro cards are built for use 24 hours a day, 7 days a week
- > Extended availability and support is offered on all professional cards, including bug fixes for professional applications

Quadro boards are built for workplace environments

- > Quadro cards have more memory, smaller footprints and consume less power
- > Deployment can be for tens or hundreds of PCs in offices
- > **Application certified:** Quadro cards and drivers are tested to work flawlessly on 100% of certified professional software applications

Quadro boards come with professional management tools, like:

- > **NVIDIA® nView®** for desktop management, allowing users to create grids and snap applications to them
- > **NVIDIA Mosaic** for combining multiple displays into one large display seamlessly without tearing
- > **Advanced 3D stereo** supports stereoscopic 3D display on HDMI 3D TVs, projectors and displays allowing for viewing images and ultrasounds in 3D

TOP PROFESSIONAL APPLICATIONS CERTIFIED WITH NVIDIA QUADRO GRAPHICS CARDS

Manufacturing, Design and Engineering

- > ANSYS (Discovery Live, Workbench/AIM, Mechanical, FLUENT)
- > Autodesk (AutoCAD, 3ds Max, Inventor, Maya, Revit)
- > Dassault Systèmes (3DXCITE, CATIA, SOLIDWORKS, SIMULIA)

Media and Entertainment

- > Adobe (After Effects, Illustrator, Premiere Pro, Photoshop)
- > Maxon CINEMA 4D

QUADRO	GAMING	INTEGRATED
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Performance

Application specific feature development and tuning	•		
Driver optimizations to maximize GPU features	•		
Unique features to support pro workflows	•		
IT tools for easy deployment & management	•		
Game developer support with Gaming Profile*	•		
Extreme performance scaling with Multi-GPU	•		

Reliability

Application specific testing by NVIDIA	•		
100+ professional application certifications by ISVs	•		
Certified across workstation platforms by leading OEMs	•		
Unified rock-solid driver with deterministic release schedule	•		
Designed and built by NVIDIA to a single specification for 24x7 reliability & stability	•		
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 SMEs	•		

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