

NVIDIA PROFESSIONAL SOLUTION GUIDE

> About 10% of the users

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.

ASK > Do you work in a technical profession such as design, engineer, architect, scientist, data scientist or research? > Do you create, render or visualize large data and images for your work? > Do you train or use neural networks, use computationally intensive applications or run simulations? NO YES Financial Services, Digital Signage, Education, Insurance, any Commercial Environments, Government Agencies, Hospitals and Call Centers. Visit > What industry or job? > Which primary application do you use? www.nvidia.com/nvs GOOD **BETTER BEST** > Occasional use of application > Regular use of application > Pushing the application to its limits > Small objects and assemblies > Average to large objects and > Extremely large objects and

assemblies

> About 80% of users

Using all application features

DESIGN/ENGINEERING/MANUFACTURING

			I	
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
AND TO DISCOVERY LIVE	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
ANSYS Workbench™, ANSYS AIM,	Desktop	Quadro P1000	Quadro P4000	Quadro P5000
ANSYS EnSight	Mobile	Quadro M1200	Quadro P4000	Quadro P5000
ANSYS Mechanical, ANSYS Fluent,	Desktop	Quadro GP100	Quadro GP100 / Quadro GV100	2x Quadro GP100 / 2x Quadro GV100
ANSYS HFSS	Mobile ¹	Quadro M1200	Quadro P4000	Quadro P5000
	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
Autodesk 3ds Max®	Mobile	Quadro M2200 / P3000	Quadro P4000	Quadro P5000
At.a.d.a.d.e. At.a.C.A.D.e.	Desktop	Quadro P620	Quadro P2000	Quadro P4000
Autodesk® AutoCAD®	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Autodesk Fusion 360	Desktop	Quadro P620	Quadro P2000	Quadro P4000
Autouesk rusion 360	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Autodesk Netfabb 2018	Desktop	Quadro P620	Quadro P2000	Quadro P4000
Autouesk Netland 2016	Mobile	Quadro M620	Quadro M2200	Quadro P4000
Autodesk Inventor®	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
Autouesk ilivelitoi	Mobile	Quadro M1200	Quadro M2200	Quadro P4000
Autodesk MoldFlow®	Desktop	Quadro GP100	Quadro GP100 / Quadro GV100	2x Quadro GP100 / 2x Quadro GV100
Autouesk Motul tow	Mobile	Quadro M1200	Quadro M2200	Quadro P4000
Autodesk Showcase™	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
Autoucsk Snowcusc	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	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
DELTAGEN / DELTAVIEW	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Dassault Systèmes CATIA V5-6 and	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
3DEXPERIENCE	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Dassault Systèmes CATIA Live	Desktop	Quadro P5000	Quadro P6000	Quadro GP100 / Quadro GV100
Rendering	Mobile	Quadro P5000	Quadro P5000	Quadro P5000
Dassault Systèmes SIMULIA Abaqus,	Desktop	Quadro GP100	Quadro GP100 / Quadro GV100	2x Quadro GP100 / 2x Quadro GV100
SIMULIA CST STUDIO	Mobile ¹	Quadro M1200	Quadro P4000	Quadro P5000
	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
Dassault Systèmes SOLIDWORKS	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Dassault Systèmes SOLIDWORKS	Desktop	Quadro P4000	Quadro 2x P4000	Quadro GP100 / Quadro GV100
Visualize ²	Mobile	Quadro P4000	Quadro P5000	Quadro P5000
	Desktop	Quadro P5000	Quadro 2x P5000	3x Quadro P6000
ESI Group IC.IDO	Mobile	Quadro P5000	Quadro P5000	Quadro P5000
EVA DVi-	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
EXA PowerViz	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
I.C. DroBook	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
LS-PrePost	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Lumiscanho P3D Dosign	Desktop	Quadro P5000	Quadro P6000	Quadro GP100 / Quadro GV100
Lumscaphe For Design	Mobile	Quadro P5000	Quadro P5000	Quadro P5000
Lumiscaphe P3D Design	Mobile	Quadro P5000	Quadro P5000	Quadro P5000

assemblies

> About 10% of users

> Using all application features

		GOOD	BETTER	BEST
4 1	Desktop	Quadro GV100	Quadro GP100 / Quadro GV100	2x Quadro GP100 / 2x Quadro GV100
MathWorks MATLAB	Mobile	Quadro P5000	Quadro P5000	Quadro P5000
ASC Nastran	Desktop	Quadro GP100	Quadro GP100 / Quadro GV100	2x Quadro GP100 or 2x Quadro GV100
43C Nastran	Mobile	Not Applicable	Not Applicable	Not Applicable
MSC Patran, Apex, ADAMS	Desktop	Quadro P620	Quadro P1000	Quadro P4000
13C Fatiali, Apex, ADAI13	Mobile	Quadro M1200	Quadro M2200	Quadro P4000
PTC Creo	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
10 0100	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,	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
FEMAP	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Siemens NX + Ray Traced Studio	Desktop	Quadro P4000	Quadro 2x P4000	Quadro P6000
Iray)	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
Siemens PLM Solid Edge	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
	Desktop	Quadro GP100	Quadro GP100 or Quadro GV100	2x Quadro GP100 or 2x Quadro GV100
Siemens NX Nastran	Mobile			
	Mobile	Not Applicable	Not Applicable	Not Applicable
/IRTUAL REALITY VIEWER (\	VR VIEW	ER)		
	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
Autodesk Live	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Siamana VD Vi	Desktop	Quadro P3000	Quadro P4000	Quadro P5000
Siemens VR Viewer	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
ADCIUTECTURE / ENCINEER	INC / CO	NCTRUCTION	·	•
ARCHITECTURE / ENGINEER				
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 /VIS	UALIZAT	ION/EFFECTS		
And a dead of Alandar	Desktop	Quadro P2000	Quadro P5000	Quadro GP100 / Quadro GV100
Autodesk 3ds Max	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
Autodesk Maya®	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Autodook Move for ODU Door To	Desktop	Quadro P6000	2x Quadro P6000	3x Quadro P6000
Autodesk Maya for GPU Ray Tracing	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Mayor CINEMA /D	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
Maxon CINEMA 4D	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
NowTok Lightways™	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
NewTek Lightwave [™]	Mobile	Quadro M2200	Quadro P4000	Quadro P5000
Cido Efforta Houdia:	Desktop	Quadro P6000	2x Quadro P6000	3x Quadro P6000
Side Effects Houdini	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
Adoba After Effects CC3	Desktop	Quadro P4000	2x Quadro P5000	2x Quadro P6000
Adobe After Effects CC ³	Mobile	Quadro P3000	Quadro P4000	Quadro P5000
/IDEU EDITING		Quadro P2000	Quadra DECCO	Quadra D/000
/IDEO EDITING	D- 11		Quadro P5000	Quadro P6000
	Desktop			Ounder MEDDOM
	Mobile	Quadro M2200	Quadro P4000	Quadro M5000M
Adobe® Media Encoder	Mobile Desktop	Quadro M2200 Quadro P2000	Quadro P5000	2x Quadro P6000
Adobe® Media Encoder	Mobile Desktop Mobile	Quadro M2200 Quadro P2000 Quadro M2200	Quadro P5000 Quadro P4000	2x Quadro P6000 Quadro P5000
Adobe® Media Encoder Adobe® Premiere Pro® CC	Mobile Desktop Mobile Desktop	Quadro M2200 Quadro P2000 Quadro M2200 Quadro P2000	Quadro P5000 Quadro P4000 Quadro P4000	2x Quadro P6000 Quadro P5000 Quadro P5000
Adobe® Media Encoder Adobe® Premiere Pro® CC	Mobile Desktop Mobile Desktop Mobile	Quadro M2200 Quadro P2000 Quadro M2200 Quadro P2000 Quadro M2200	Quadro P5000 Quadro P4000 Quadro P4000 Quadro P4000	2x Quadro P6000 Quadro P5000 Quadro P5000 Quadro P5000
VIDEO EDITING Adobe® Media Encoder Adobe® Premiere Pro® CC Avid® Media Composer® Grass Valley Edius®	Mobile Desktop Mobile Desktop Mobile Desktop	Quadro M2200 Quadro P2000 Quadro M2200 Quadro P2000 Quadro M2200 Quadro M2200 Quadro P620	Quadro P5000 Quadro P4000 Quadro P4000 Quadro P4000 Quadro P2000	2x Quadro P6000 Quadro P5000 Quadro P5000 Quadro P5000 Quadro P4000
Adobe® Media Encoder Adobe® Premiere Pro® CC Avid® Media Composer®	Mobile Desktop Mobile Desktop Mobile Desktop Mobile	Quadro M2200 Quadro P2000 Quadro M2200 Quadro P2000 Quadro M2200 Quadro P620 Quadro M1200	Quadro P5000 Quadro P4000 Quadro P4000 Quadro P4000 Quadro P2000 Quadro M2200	2x Quadro P6000 Quadro P5000 Quadro P5000 Quadro P5000 Quadro P4000 Quadro P4000
Adobe® Media Encoder Adobe® Premiere Pro® CC Avid® Media Composer®	Mobile Desktop Mobile Desktop Mobile Desktop	Quadro M2200 Quadro P2000 Quadro M2200 Quadro P2000 Quadro M2200 Quadro M2200 Quadro P620	Quadro P5000 Quadro P4000 Quadro P4000 Quadro P4000 Quadro P2000	2x Quadro P6000 Quadro P5000 Quadro P5000 Quadro P5000 Quadro P4000

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)	Desktop	Quadro P4000	Quadro P5000	Quadro P6000
DecisionSpace®, GeoProbe®	Mobile	Quadro P4000	Quadro P5000	Quadro P5000
Paradiam Coophysical Voyal Coo®	Desktop	Quadro P5000	Quadro P6000	2x Quadro P6000
Paradigm Geophysical VoxelGeo®	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
Schlumberger Petret	Mobile	Quadro P4000	Quadro P5000	Quadro P5000
IHS KINGDOM	Desktop	Quadro P2000	Quadro P4000	Quadro P5000
III3 KIRODOPI	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

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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	•	

QUADRO

GAMING

INTEGRATED

Reliability

Application specific testing by NVIDIA	•	
100+ professional application certifications by ISVs	•	
Certified across workstation paltforms 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.

